
Contents

Top Stories	2
Dassault Systèmes to Acquire Engineous Software	2
SAP to Acquire Visiprise, Enhancing Manufacturing Execution Capability to Further Deliver on “Perfect Plant” Vision	3
Acquisitions	5
Autodesk Closes Moldflow Tender Offer and Expects to Complete Acquisition Promptly	5
Cadence Proposes to Acquire Mentor Graphics for \$16.00 Per Share in Cash	5
Mentor Graphics Responds to Proposal from Cadence Design Systems	7
CIMdata News	8
Dassault Systèmes Acquires Engineous (CIMdata Highlight)	8
SAP Acquires Visiprise (CIMdata Highlight)	8
CIMdata in the News: “The Record of Choice; Feeding engineering information from the BOM to other systems isn't easy, but it can be profitable”	9
Reminder to Vote in the CIMdata Opinion Poll, How Your Company Manages Simulation & Analysis	9
Company News	10
Cimatron to be Fastest Growing CAM Vendor in 2008 - Predicts CIMdata	10
GibbsCAM Manuals Available Through Print-On-Demand	10
Kubotek Honors CIM Solutions and Networking With Two Top Sales Awards	11
SolidProfessor Releases SolidWorks Certification Prep Course	11
30th Delcam Sales Office Opened in China	12
Events News	12
Apache Design Solutions Wins the Best New Product Award at the Design Automation Conference	12
COADE Announces Drivers of Success Competition for Plant Design Applications in Conjunction with the CADWorx User Conference to be held October 20-22, 2008 in Houston	13
Delcam's Range of ArtCAM Software on Show at IWF 08	13
Corrention: Knowllence: the Design Common Guideline, i.e. How Can Methodological Tools Complete the Product/Process Data Repository (PDM)	14
Financial News	16
IGE+XAO Turnover in the 3rd Quarter 2007/2008 (in IFRS norms) - Continued Dynamic Expansion 6%	16
Implementation Investments	17
AdFast Corp. Selects Microsoft Dynamics AX 2009 from Fullscope	17
Cadence Virtuoso Spectre With Turbo Technology Adopted by National Semiconductor	17
DEK Printing Machines Improves Global Product Development Collaboration with the PTC® Product Development System	18
Delcam Software Used to Recreate Porcelain History	19
Flow Simulation Helps Solve Power LED Overheating Problem in One Day	20
HUSCO Uses MathWorks Products to Create Intelligent Valve Controllers for 20-Ton Excavator	21
Siemens PLM Software Sponsored Race Teams Bring Home Milestone Wins	21
Synopsys' TCAD Sentaurus Enables Development of Kodak's New Image Sensor Products	22
Synopsys Discovery AMS Enables Analog Bits to Achieve 45nm SERDES Verification	23
Texas Southern University Receives Educational Software Grant from AVEVA	24
The Brazilian Institute of Aeronautics and Space (IAE) Implements LMS solutions in Ground Vibrations	

CIMdata PLM Industry Summary

Testing	24
Viessmann Selects MSC Software Solutions for Productivity Gains in Virtual Product Development	25
Product News	26
Bunkspeed Releases Free Beta Plug-In for Rhino	26
Cadence Enhances RF Verification With High-Performance 'Turbo' Technology and Comprehensive Electromagnetic Analysis	27
Dassault Systèmes Empowers Manufacturers to “Design for the Environment”	29
Gerber Technology Announces Availability of Fashion Lifecycle Management (FLM) Workflow™ 8.8	30
Intercim and Dassault Systèmes Sign Memorandum of Understanding	31
Kineo CAM Support for 3Dconnexion 3D Mice Directly Connects CAD Professionals to 3D Content	32
Lattice Technology Releases XVL Converter for Autodesk Inventor 2009	33
LightWork Design Unveils New Rendering Solution	34
Mentor Graphics Delivers High-Performance Platform for the Accelerated Verification of Multimedia Applications	34
MSC Software Announces Upcoming R3 Releases of Simxpert and Simdesigner to Allow Analysts, Designers, and Suppliers to Simulate More Efficiently in Collaborative Desktop Simulation Environments	35
New Version of aniDim3nsion™ for Product Configuration Visualization	36
Parallel Processing Introduced in TransMagic 3D CAD Interoperability Software	37
Right Hemisphere's New Deep Exploration Software Ships, Features Support for 3D Manufacturing Instructions	38
Students are Welcome to Explore KOMPAS-3D Professional	39
Subversion 1.5 Now Available Through CollabNet-Sponsored Subversion Open Source Community	39
Synopsys' DesignWare Verification IP Enhanced to Support New SATA 6Gbps Specification	40
Valor Expands Channel Partnership with XinJia (HK) Technology Shenzhen, China	41
With Newly Extended Modaris 3D Fit Simulation Capabilities, Lectra Promotes the Use of Virtual 3D Prototyping in the Apparel Industry	41
Zuken Launches Board Interchanger for Concurrent Mechanical and PCB Design	43

Top Stories

Dassault Systèmes to Acquire Engineous Software

17 June 2008

Dassault Systèmes ([DS](#)) and Engineous Software announced an agreement in which DS would acquire Engineous Software. This acquisition will extend SIMULIA’s leadership in providing Simulation Lifecycle Management solutions on the V6 IP collaboration platform. The proposed acquisition, for an estimated price of 40 million USD, should be completed before the end of July subject to specific closing conditions. The transaction is expected to be non dilutive on DS non-GAAP 2008 earnings.

“The combination of SIMULIA’s domain expertise in Realistic Simulation, the new Dassault Systèmes V6 PLM 2.0 platform, and industry-proven Engineous technology will provide customers with an unmatched capability for collaborative management of simulation applications, processes, data and intellectual property,” stated Scott Berkey, CEO, [SIMULIA](#). “Our new SLM solution is already establishing market leadership momentum and the integration of Engineous’ FIPER framework as well as its design performance exploration tools will enrich and quicken our clients’ capabilities to deliver better products.”

Engineous’ FIPER software has evolved to become the leading distributed product development infrastructure that allows organizations to access, execute, and reuse design simulation tools and

CIMdata PLM Industry Summary

processes. The software allows resources to be connected within an organization and externally with partners and geographically dispersed design teams. Engineous customers include: Boeing, GM, Nissan, Procter & Gamble, Caterpillar, Canon, Rolls Royce, United Technologies, General Electric, Samsung and Toyota.

“We are extremely pleased to be joining Dassault Systèmes and the SIMULIA brand team,” stated Siu Tong, founder of Engineous Software. “Our vision, from the start, has been to help define and build solutions for the management and automation of simulation activities within the enterprise. Becoming part of Dassault Systèmes will allow our team to play an integral role in the democratization of realistic simulation for companies, their ecosystem and their customers, establishing SIMULIA SLM as the standard for enterprise simulation frameworks.”

Originally sponsored by an industry alliance, including Engineous Software, Goodrich, General Electric, OAI, Parker Hannifin and Ohio University, the Federated Intelligent Product EnviRonment project enabled Engineous to commercialize their FIPER product, which streamlines the design of engineered products, integrating legacy and best-of-breed analytical and design tools through a Web-enabled environment.

"We have enjoyed considerable success in deploying solutions from both Dassault Systèmes and Engineous as part of our overall digital engineering capability," said Dr. Byungsik Kang, Director of CAE, Vehicle Technology Center of Hyundai-Kia Motors Corporate Research & Development Division. "The integration of Engineous and SIMULIA solutions within the open Dassault Systèmes environment represents an exciting opportunity for CAD/CAE system improvements which we look forward to with great interest as our enterprise digital engineering strategy evolves. We are very pleased with this unification from our most dependable partners."

Additional information may be found at <http://www.Engineous.com> and <http://components.Engineous.com>.

 [Click here to return to Contents](#)

SAP to Acquire Visiprise, Enhancing Manufacturing Execution Capability to Further Deliver on “Perfect Plant” Vision

17 June 2008

SAP AG announced its intent to acquire Visiprise, Inc. With the addition of Visiprise, SAP will deliver on its “Perfect Plant” strategy to bring together core SAP solutions with the software, hardware and services offerings of ecosystem partners to drive innovation for discrete manufacturers. The integration of Visiprise’s plant-level manufacturing execution solutions brings discrete manufacturing customers a product offering to increase production responsiveness, improve operational efficiencies and enhance quality and regulatory compliance.

Headquartered in Alpharetta, Georgia, Visiprise serves more than 60 industry-leading, global customers including many existing SAP customers in discrete manufacturing industries including high tech, aerospace and defense, automotive and medical device. The acquisition of Visiprise is consistent with SAP’s strategy to complement existing applications and solutions with smart purchases that offer innovative technologies and capabilities while maintaining its successful organic growth track record.

“The automation of business processes for manufacturing companies has been core to the SAP strategy for more than 30 years,” said Jim Hagemann Snabe, corporate office and member of the executive

CIMdata PLM Industry Summary

council, SAP AG. “We are excited to combine Visiprise’s industry-leading manufacturing execution solutions with the power of the SAP Business Suite. This combination will offer manufacturers better visibility by linking the operations of the plant floor to production planning and operations management, enabling manufacturers to respond profitably to the growing demands of their global customers.”

Manufacturing executives and plant managers are under increasing pressure to coordinate manufacturing planning across the global supply network while driving efficient and responsive local execution to ensure the delivery of fast-moving products within short lead times. Through the combination of SAP® Business Suite applications, the SAP® Manufacturing Integration and Intelligence (SAP MII) application and Visiprise Manufacturing, customers gain network-wide visibility, enterprise orchestration, plant to network data integration and the ability to deploy end-to-end, “plan to make” processes across multiple plants through an integrated enterprise resource planning (ERP) and manufacturing execution systems (MES) solution from a single partner. This helps manufacturers achieve operational excellence and ensure product and service leadership while continuously orchestrating a highly responsive supply network. Customers operating distributed manufacturing operations with facilities across the globe also benefit from SAP’s worldwide support, services and ecosystem partners to lower total cost of ownership and achieve fast time to value for multi-plant execution system deployments.

SAP and Visiprise have a long history of partnership as part of SAP’s “Perfect Plant” initiative and related ecosystem dating back to 2005. In November 2006, Visiprise received an investment from the global SAP NetWeaver Fund. Soon after, in January 2007, Visiprise’s flagship solution, Visiprise Manufacturing, was named an SAP-endorsed business solution. In February 2007, the Visiprise ERP Shop Floor Integration 1.0 packaged composite application achieved “SAP xApps Certified – Powered by SAP NetWeaver” status. Most recently, SAP agreed to resell and market the Visiprise Manufacturing product under the name SAP® Manufacturing Execution by Visiprise (see June 13, 2007 press release, titled “[SAP Enhances Manufacturing Execution Capability for Discrete Manufacturers; Announces Global Reseller Agreement with Visiprise](#)”). In addition, Visiprise solutions are fully integrated into live end-to-end manufacturing process scenarios showcased by Tata Consulting Services (TCS) at SAP’s “Perfect Plant” center of excellence at SAP’s Newtown Square facility. This strong track record of collaboration between the companies offers a smooth foundation for integration efforts and the combined vision towards next-generation manufacturing operations solutions. The acquisition of Visiprise solutions enables the companies to work together to more rapidly, making them available to a global marketplace.

“Best in class manufacturers understand the value of the integration of MES with ERP to provide a comprehensive manufacturing control solution,” said Sean McCloskey, president and CEO, Visiprise. “The compatibility between the Visiprise offering and SAP is undeniable and proven. We are excited to join the [SAP](#) team and work together to further serve our customers as their needs continue to evolve and grow.”

SAP anticipates that the acquisition will be completed in July 2008 pending necessary regulatory approvals in the United States and Europe. Visiprise employs approximately 300 employees and has additional offices in Carlsbad, California and Kiev, Ukraine. The company will provide additional details about the integration of the companies after the closing of the transaction. Terms of the transaction are not disclosed publicly.

 [Click here to return to Contents](#)

Acquisitions

Autodesk Closes Moldflow Tender Offer and Expects to Complete Acquisition Promptly

20 June 2008

Autodesk, Inc. announced that it has successfully completed its tender offer for shares of Moldflow Corporation.

Autodesk's tender offer expired at 6:00 p.m., Eastern Daylight time, on Thursday, June 19, 2008. To date, Autodesk has purchased 11,622,163 shares, representing approximately 95% of the shares outstanding.

Autodesk expects to complete its acquisition of Moldflow by merger on June 25, 2008. As a result of the merger, all remaining outstanding shares of Moldflow which are not owned by Autodesk, Moldflow or any of their wholly-owned subsidiaries, will be canceled and automatically converted into the right to receive \$22.00 per share, without interest, less any required withholding taxes. After the completion of the merger, Moldflow will be a wholly-owned subsidiary of Autodesk.

 [Click here to return to Contents](#)

Cadence Proposes to Acquire Mentor Graphics for \$16.00 Per Share in Cash

17 June 2008

Cadence Design Systems, Inc. announced that it submitted a proposal to the Board of Directors of Mentor Graphics Corporation to acquire Mentor Graphics for \$16.00 per share in cash. Cadence's all-cash proposal, which is not subject to any financing condition, represents a 30% premium over the closing price of Mentor Graphics common stock on June 16, 2008, the last trading day prior to public disclosure of Cadence's proposal, a 59% premium over the closing price of Mentor Graphics common stock on May 2, 2008, when Cadence presented the terms of the proposal to Mentor Graphics, and a 46% premium over Mentor Graphics' average closing price for the past 30 trading days. The transaction price represents a total enterprise value of \$1.6 billion on a fully diluted basis, which reflects Mentor Graphics' net debt of \$69 million.

"A combined Cadence-Mentor will offer customers a broader and more fully integrated product and technology portfolio in a timeframe that better enables them to address urgent and complex challenges associated with their next-generation product development," said Michael J. Fister, president and chief executive officer of Cadence. "Together, we will accelerate the rate and efficiency of customers' innovation by making it possible for them to develop products that better meet end user needs."

"We believe the combination of Cadence and Mentor Graphics delivers significant benefits to both companies' shareholders that are simply too compelling to ignore," said Kevin S. Palatnik, senior vice president and chief financial officer of Cadence. "Our \$16.00 per share all-cash proposal provides Mentor Graphics shareholders with a substantial cash premium for their investment in Mentor Graphics. It remains our strong preference to work cooperatively with Mentor Graphics, and to immediately commence discussions with Mentor Graphics regarding our proposal."

Cadence's proposal is subject to the negotiation of a mutually agreeable merger agreement, the completion of certain limited and confirmatory due diligence, and the satisfaction of other customary conditions, including receipt of regulatory approvals.

CIMdata PLM Industry Summary

Deutsche Bank Securities Inc. is acting as financial advisor to Cadence and Davis Polk & Wardwell is acting as legal counsel.

Below is the text of the letter that was sent earlier today to the Board of Directors of Mentor Graphics, in care of Walden C. Rhines, Chairman and Chief Executive Officer of Mentor Graphics:

June 17, 2008

The Board of Directors of Mentor Graphics Corporation

c/o Walden C. Rhines

Chairman of the Board of Directors

and Chief Executive Officer

Mentor Graphics Corporation

8005 S.W. Boeckman Road

Wilsonville, OR 97070

Dear Wally:

Over the last two months, we have sought to engage you and your Board of Directors in discussions regarding our proposal to combine Cadence Design Systems, Inc. and Mentor Graphics Corporation. We are disappointed that, despite our best efforts, you have thus far been unwilling to meaningfully participate in such discussions.

As you will recall, you and I first spoke about combining Cadence and Mentor Graphics on April 16, 2008. On May 2, 2008, Bill Porter and I met with you and Greg Hinckley in Portland where we presented the terms of our proposal to acquire Mentor Graphics for \$16.00 per share in cash.

Following the May 2nd meeting, we repeatedly attempted to bring the Cadence and Mentor Graphics leadership teams together to discuss our proposal. On May 23, 2008, however, you informed us that, even without any substantive discussion with us or negotiation of our proposal, Mentor Graphics concluded that it did not wish to pursue discussions with us given Mentor Graphics' desire to stay independent.

It remains our preference to bring Cadence and Mentor Graphics together through a negotiated transaction. However, given Mentor Graphics' refusal to engage in substantive discussions with us concerning our all-cash premium acquisition proposal and the importance of this transaction to both companies' respective shareholders, we have decided to publicly disclose our proposal. We believe there are clear and compelling advantages to a combination of Cadence and Mentor Graphics.

As Bill and I explained to you on May 2, based upon our knowledge of Mentor Graphics from currently available public information, Cadence is prepared to acquire Mentor Graphics for \$16.00 per share in cash. Our proposal is not subject to any financing condition. This proposal is a full and fair price and provides an attractive opportunity for your shareholders to realize, with certainty, significant value for their investment in Mentor Graphics. This price represents a 30% premium over the closing price of Mentor Graphics common stock on June 16, 2008, the last trading day prior to public disclosure of our proposal, a 59% premium over the closing price of Mentor Graphics common stock on May 2, when we presented the terms of our proposal, and a 46% premium over Mentor Graphics' average closing price for the past 30 trading days.

CIMdata PLM Industry Summary

We believe that a combined Cadence-Mentor will provide customers a broader and more fully integrated product and technology portfolio in a timeframe that better enables them to address urgent and complex challenges associated with their next-generation product development. From increasing complexity to stringent cost targets, developers must optimize and prioritize their efforts across the entire spectrum of specification, architecture, design, implementation, verification, and manufacturing.

Combining Cadence and Mentor Graphics and aligning the creative talents of our respective hard-working and innovative employees will deliver more comprehensive cutting-edge solutions and an entirely new level of customer experience and satisfaction. Together we can accelerate the rate and efficiency of customers' innovation by making it possible for them to develop products that better meet end user needs.

Our proposal is subject to the negotiation of a mutually acceptable merger agreement and completion of certain limited and confirmatory due diligence, which we believe we will be able to complete expeditiously, as well as satisfaction of other customary conditions, including receipt of regulatory approvals. We and our advisors have carefully analyzed the combination of Cadence and Mentor Graphics and are confident that the proposed transaction will receive the necessary regulatory approvals.

We strongly believe that a combination of Cadence and Mentor Graphics will create significant value for both companies' respective shareholders and customers. Our leadership team and advisors remain prepared to meet with you and your advisors at your earliest convenience to conduct the necessary due diligence and negotiate a merger agreement. I am confident that the Cadence and Mentor Graphics teams working together can make this transaction a success.

The Board of Directors of Cadence unanimously supports this proposal and the combination of Cadence and Mentor Graphics. We expect you and the Mentor Graphics Board to give this proposal serious consideration. I look forward to hearing from you soon.

Sincerely yours,

/s/ Michael J. Fister

Michael J. Fister

President and Chief Executive Officer

Audio Webcast and Conference Call Information

[Cadence](#) will host an analyst and investor audio webcast and conference call today, June 17, 2008, at 7:00 a.m. (Pacific) / 10:00 a.m. (Eastern) to discuss the proposed transaction. An archive of the webcast will be available starting today, June 17, 2008, at 10:00 a.m. (Pacific) / 1:00 pm (Eastern) and ending at 8:59 p.m. (Pacific) / 11:59 pm (Eastern) on Friday, June 20, 2008. The replay can be accessed through Cadence's website or by dialing (800) 642-1687 (toll-free, U.S.) or (706) 645-9291 (toll, international); the conference ID number is 52206067.

 [Click here to return to Contents](#)

Mentor Graphics Responds to Proposal from Cadence Design Systems

17 June 2008

Mentor Graphics Corporation today acknowledged receipt of an unsolicited proposal by Cadence Design Systems to acquire [Mentor Graphics](#) at a price of \$16.00 per share. Mentor Graphics confirmed that it

previously rejected the proposal.

"As we recently indicated to Cadence, we reviewed Cadence's proposal and analyzed both the price proposed and the risks associated with obtaining antitrust approval for a combination between the companies," said Walden C. Rhines, chairman and CEO of Mentor Graphics. "Following this review, we concluded that not only was the price insufficient to support a transaction but that the risks of not gaining regulatory approval were sufficiently high that the ability of the parties to consummate the transaction would be in jeopardy. For these and other reasons, our Board unanimously rejected the proposal."

 [Click here to return to Contents](#)

CIMdata News

Dassault Systèmes Acquires Engineous (CIMdata Highlight)

17 June 2008

Dassault Systèmes (DS) and Engineous Software, a market leader in process automation, integration and optimization, today announced an agreement in which DS would acquire Engineous Software. DS will incorporate Engineous' process automation, integration and optimization capabilities into their SIMULIA Simulation Lifecycle Management (SLM) solution suite. The proposed acquisition, for an estimated price of 40 million USD, should be completed before the end of July subject to specific closing conditions.

Engineous' FIPER software is designed to enable organizations to access, execute, and reuse design simulation tools and processes. Engineous customers include: Boeing, GM, Nissan, Procter & Gamble, Caterpillar, Canon, Rolls Royce, United Technologies, General Electric, Samsung and Toyota.

The acquisition of Engineous continues DS' drive to develop a comprehensive SLM suite that effectively complements their CATIA-based design solutions. The Engineous products will be incorporated as part of DS' V6 PLM 2.0 platform and will be managed as an integral component of the overall environment. This acquisition should improve their competitiveness in the simulation and analysis arena.

 [Click here to return to Contents](#)

SAP Acquires Visiprise (CIMdata Highlight)

17 June 2008

SAP AG today announced its intent to acquire Visiprise, Inc., a privately-held, provider of manufacturing execution software solutions delivering integrated manufacturing operations to companies of all sizes. Acquisition of Visiprise is part of SAP's "Perfect Plant" strategy and supports their PLM roadmap and its goal of helping customers achieve operational excellence and product and service leadership. SAP anticipates that the acquisition will be completed in July 2008 pending necessary regulatory approvals in the United States and Europe.

The combination of SAP® Business Suite applications, the SAP® Manufacturing Integration and Intelligence (SAP MII) application and Visiprise Manufacturing should help customers deploy end-to-end, "plan to make" processes across multiple plants through an integrated enterprise resource planning

CIMdata PLM Industry Summary

(ERP) and manufacturing execution systems (MES) solution.

CIMdata believes that integrating MES with ERP is a core precept for the merging of PLM and Automation. SAP's acquisition of Visiprise is a solid step forward to providing their customers a more comprehensive manufacturing control solution. It can also provide a bridge between SAP's ERP and PLM solutions and the Digital Manufacturing domain.

 [Click here to return to Contents](#)

CIMdata in the News: "The Record of Choice; Feeding engineering information from the BOM to other systems isn't easy, but it can be profitable"

June 2008

For insight into the automation of bills of material information to the manufacturing floor, Jean Thilmany, Associate Editor for [Mechanical Engineering](#), taps the expertise of CIMdata's Director of Research Ken Amann:

Amann agrees ... that about 90 percent of small to midsize companies rely on manual reentry to move BOM information into pertinent enterprise systems. While larger companies automate these functions through a product lifecycle management application, automation itself doesn't come without issue.

"BOM is the very first area where we saw integration of the PLM side of the house and the ERP side of the house," Amann said.

That integration began in the early 1990s, he added.

"But what's happened over time is we've expanded that level of integration," Amann said of the PLM world. "In the beginning, it was a one-way move from PLM into ERP and then we made that bidirectional, and then we expanded the information so it wasn't just product structure that made it over but also changed information.

"Now we're tying these processes together so information flows as the business wants it to move as opposed to what technology wants," he added.

Learn more at [The Record of Choice](#)

 [Click here to return to Contents](#)

Reminder to Vote in the CIMdata Opinion Poll, How Your Company Manages Simulation & Analysis

June 2008

Please take a moment to provide feedback in our brief 4 part [opinion poll](#) on how Simulation & Analysis is managed in your company.

The results of these polls are tabulated as you vote. The results are completely anonymous.

 [Click here to return to Contents](#)

Company News

Cimatron to be Fastest Growing CAM Vendor in 2008 - Predicts CIMdata

16 June 2008

Cimatron Limited was named as one of the fastest growing CAM vendors.

The CAM market ranking was compiled by consulting and research firm CIMdata and published in the recently-released [NC Software and Related Services Market Assessment Report](#).

According to a press release issued by CIMdata, “The rapid growth of Cimatron in 2007 and 2008 is a combination of improved organic growth and the acquisitions of Microsystem in 2007 and Gibbs and Associates in 2008.”

CIMdata views Cimatron as “one of the industry leaders in the toolmaking software marketplace.” Defining the merger of Gibbs with Cimatron as “a positive move”, the CIMdata report goes on to explain: “The companies are very complementary to one another in product, markets pursued, and distribution channels. It brings together the CimatronE integrated CAD/CAM suite focused on toolmaking with GibbsCAM—which is focused on production machining to provide a more complete product portfolio for the manufacturing industry.”

“The CIMdata report and ranking reflect the success of our growth strategy,” said Danny Haran, Cimatron’s President and Chief Executive Officer. “The 2007 results are attributed to our efforts to develop and launch competitive products for broader segments of the toolmaking and manufacturing sectors, as well as to the positive contribution of the Microsystem acquisition. We expect to see additional growth in 2008 based on the success of our product line and the merger with Gibbs and Associates, which enables us to better serve the global market through our joint distribution network.”

Additional information about the CIMdata report can be found at <http://cimdata.com/press/PR08-0603.htm>.

 [Click here to return to Contents](#)

GibbsCAM Manuals Available Through Print-On-Demand

16 June 2008

Gibbs and Associates announced that documentation for GibbsCAM can now be ordered from on-line print-on-demand vendor, Lulu (<http://www.Lulu.com>), allowing users to obtain hardcopy documentation as needed. Available in color or black and white formats, the initial set of documentation offered covers GibbsCAM 2007, v8.7. The catalog of GibbsCAM documentation will be updated to stay current with the latest release of the software. Versions of the documentation will also be made available in a wide variety of languages and can be ordered from almost anywhere in the world via the internet. Pricing for the printed documentation depends on the size of the manual and whether or not it is printed in black and white or color.

“The print-on-demand system for making hardcopy documentation available to our customers is a really cost effective solution for all involved,” observed Bill Gibbs, founder and president of Gibbs and Associates. “By outsourcing this to an on-line publisher we are able to offer customers a wider choice of documentation with improved delivery times. On-line digital documentation for GibbsCAM will continue to be provided to customers as a regular part of the release.”

CIMdata PLM Industry Summary

For more information about GibbsCAM, or to locate your local GibbsCAM Reseller, go to <http://www.GibbsCAM.com>, call 1-800-654-9399, or email info@GibbsCAM.com. For more information about Lulu's print on demand supply of GibbsCAM documentation, go to <http://www.Lulu.com> and enter "GibbsCAM" in the search field. The direct link to the store front is stores.lulu.com/gibbs_en.

 [Click here to return to Contents](#)

Kubotek Honors CIM Solutions and Networking With Two Top Sales Awards

17 June 2008

[Kubotek USA](#) announced reseller awards for its recently ended sales year. [CIM Solutions and Networking](#) of Canton, MI serving Michigan, Ohio, or Indiana area and the world's largest KeyCreator CAD reseller, received two top reseller awards for their outstanding achievements.

The awards include:

- Distributor of the Year award
- Sales Leader award

 [Click here to return to Contents](#)

SolidProfessor Releases SolidWorks Certification Prep Course

17 June 2008

[SolidProfessor](#), a SolidWorks Solution Partner, announced the release of its SolidWorks Certification Prep Course. SolidProfessor's course is the only, self-paced preparation course available that exclusively addresses the latest Certified SolidWorks Professional (CSWP) and Certified SolidWorks Associate (CSWA) exams.

The SolidWorks Certification Prep course was designed and written by Certified SolidWorks Professionals and Certified SolidWorks Instructors to help users prepare and successfully pass the CSWP/CSWA Certification exams. The course begins by introducing you to the SolidWorks Certification exam itself, and continues with detailed sample problems in all major areas of the exam, including basic and advanced part and assembly design, with special attention paid to the topic of in-context design. The course includes lessons covering COSMOSXpress stress simulation, sample test examples and a practice test so users can evaluate their skill level throughout their preparation.

Jason Wright, Product Manager of SolidProfessor remarks, "With the rapidly growing number of SolidWorks users, the CSWP certification really helps users to differentiate themselves and prove to employers that they have a recognized level of competence in SolidWorks. With the addition of the SolidWorks Certification Prep Course to the SolidProfessor library of multimedia content for SolidWorks, we can now offer an even more comprehensive resource to help users further their career goals."

The [SolidWorks](#) Certification Prep Course is available direct from SolidProfessor or through a growing number of SolidWorks resellers including GoEngineer, Computer Aided Technology, Intercad, Digital Dimensions, ModernTech Mechanical, The SolidExperts, CAPINC and more. The single user retail price is \$499, with discounts available for existing customers and multi-user implementations.

 [Click here to return to Contents](#)

30th Delcam Sales Office Opened in China

20 June 2008

The 30th sales and support office in China has just been opened for Delcam's range of CAD/CAM software. The latest addition is based in Qingdao on the eastern coast and is the eighth office to be established by the Delcam China subsidiary. Delcam China's other centres are the head office based in Beijing, plus regional offices in Shanghai, Shenzhen, Chengdu, Xi'an, Wenzhou and Chongqing. In addition, the Delcam Hong Kong and Delcam Taiwan joint ventures operate two offices each in China, and there are also 18 reseller offices in the country.

The Qingdao region is one of few manufacturing centres in China where Delcam was not previously represented. The area is a major centre for the manufacture of domestic appliances and automotive components, but is also seeing a general expansion in its local industry. As the Chinese region nearest to Korea, the area has attracted investment from many leading Korean manufacturers.

"The establishment of our Qingdao office is another step towards ensuring that all of our customers in China can have access to local support from experienced engineers," said Delcam's Business Development Manager for Greater China, Joe Zhou. "In addition, Delcam has always been extremely successful in Korea and the new office will help support our Korean customers that are expanding into the Qingdao region."

The opening of its 30th outlet in the country comes at a time when Delcam's sales in China are at record levels. Sales in the first four months of this year are more than 25% up on the same period last year.

 [Click here to return to Contents](#)

Events News

Apache Design Solutions Wins the Best New Product Award at the Design Automation Conference

17 June 2008

Apache Design Solutions was chosen as the winner of this year's "Best of DAC" Award in the 'Best Overall New Product' category for Sentinel-PI. For the first time this year, the Design Automation Conference hosted the "Best of DAC" Awards where the conference attendees were given an opportunity to cast their vote for the best exhibitor in various categories (see http://www.dac.com/45th/PDFs/BestofDAC_061208.pdf).

Sentinel-PI enables semiconductor and systems companies to mitigate design risks, optimize system cost, and improve productivity (see <http://www.apache-da.com/apache-da/Home/NewsandEvents/PressReleases/05.20.08.html>) (Due to its length, this URL may need to be copied/pasted into your Internet browser's address field. Remove the extra space if one exists.)

In addition to the Best Overall New Product, Apache also won the Best Demonstration on Exhibit Floor and was named the "Trendsetter" by receiving the second highest number of votes for the Best Booth behind Synopsys, Inc.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

COADE Announces Drivers of Success Competition for Plant Design Applications in Conjunction with the CADWorx User Conference to be held October 20-22, 2008 in Houston

18 June 2008

[COADE](#) announced today its first-ever CADWorx User Conference: Drivers of Success competition, where the company's CADWorx Plant Design suite software users will be competing for 10 sets of prizes to be awarded in each region for the best success stories submitted for real-world applications of CADWorx Plant, CADWorx P&ID, CADWorx IP, CADWorx Steel and/or CADWorx Design Review.

The purpose of the competition for COADE and its dealer network is to increase awareness in the market of the CADWorx range of products by promoting the benefits gained in applications by current users.

The prizes, one set to be awarded in each of nine COADE Global Network Partnership (CGNP) regions plus one set for the Central and South America region, will include a first place prize of an all expense paid trip to the CADWorx User Conference on October 20-22, 2008, in Houston; a second place prize of an Apple iPod; a third place prize of an Apple Nano; and a COADE logo shirt (oxford or polo style) as a prize for the 4th place up to 10th place winner in each region.

Judging of submissions will be by COADE representatives, and the decisions of judges will be final. For details on the CADWorx User Conference and the Driver's of Success competition, contact COADE at <http://www.coade.com>.

 [Click here to return to Contents](#)

Delcam's Range of ArtCAM Software on Show at IWF 08

16 June 2008

Delcam's new release of the ArtCAM family of products 2009 will be showcased at the IWF show in Atlanta, Georgia, from 20th to 23rd August. Like the previous ArtCAM range, ArtCAM 2009 is aimed at artisans rather than engineers. Features are designed to minimize the learning curve so even beginners to CNC technology can start using the program as quickly as possible. All products within the range of ArtCAM products offer upgrade options so users can move from entry level programs to more advanced solutions as their businesses require.

ArtCAM Express offers basic 2D drawing, and 2D and 3D machining functions, plus the ability to import different file types including STL files, making it a very versatile entry level program for smaller businesses. In addition, the software includes a range of drawing tools for creating shapes and for editing or repairing designs. The options for text creation support a wide range of fonts and also give complete control over spacing, kerning, and formatting of lines and paragraphs.

Once the design has been finalized, the software offers a variety of strategies for CNC machining. To aid in machining, the software is supplied with a tooling database that can be edited or added to by the user at any time.

The main advances to ArtCAM 2009 can be found in the Insignia and Pro versions and concentrate on the design process. A new "Embossing Wizard" will allow users to tilt and rotate their 3D model to change the viewers' perspective. Once happy with the image, within seconds ArtCAM's new embossing tool can modify a true 3D shape. The resulting design still maintains the salient details and the illusion of depth from the original model.

CIMdata PLM Industry Summary

Another new feature in ArtCAM is the 'Relief Analysis Tool'. This will highlight any sharp edges or discontinuities within the design that could cause subsequent problems. The user can see and make the necessary design modifications before incurring any timely or costly manufacturing delays.

At the end of a design process, approval is required before machining can take place. Rather than taking screenshots or sending large cumbersome files by e-mail, ArtCAM's new PDF viewer can embed a dynamically viewable 3D model of the final design in an efficient, industry-standard and printable document.

Adding decoration with ArtCAM is simple. Stop by the Delcam booth #4539 at IWF for a personal consultation to see how Delcam ArtCAM can add dimension to your business.

<http://www.delcam.com/shows08/>.



[Click here to return to Contents](#)

Corrention: Knowllence: the Design Common Guideline, i.e. How Can Methodological Tools Complete the Product/Process Data Repository (PDM)

14 May 2008

Correction:

In this news published in the CIMdata weekly newsletter June 6, the link to the article "Schneider increases the consistency of its design approach using the TDC tools" was inadvertently omitted. The article can be accessed at http://www.knowllence.com/en/news/presse_plm2-0.php.

For your convenience here is the announcement published June 6, 2008 (with link added):

Knowllence organized a conference dealing with: "from geometry to PLM 2.0, the design common guideline", that welcomed 75 attendees. The aim was to introduce the methodological tools completing the usual technical data management systems and launch the collaborative platform for system engineering: TDC System.



This conference started with the testimonies of Philippe Bergin and Philippe Raffoux from Schneider

CIMdata PLM Industry Summary

Electric (Innovation department - R&D Efficiency & Quality). Their mission is to define world class processes and roll out appropriate tools, so that the 7,000 designers know how to achieve their efficiency and design sturdiness goals. Within the Radar (Required Activities of Design* to Achieve Robustness) project, Schneider Electric successfully implements the TDC software in the fields of functional analysis (VoC - Voice of Customer) and risk mastering (FMEA), throughout the steps of the offer creation process, whilst remaining DFSS (Design for Six Sigma) compatible.

Read more: http://www.knowllence.com/en/news/presse_plm2-0.php

Jean-François Prévéraud (chief-editor of GISI) then presented the evolution of the engineering and design departments' needs and requirements. While the PLM lifecycle management progressively disseminates, it should nevertheless not be limited to 3D geometry. It is such a strategic decision to opt for PLM 2.0 and integrate customers into the heart of the design process.

Thierry Beaujon, CEO, then introduced the Knowllence vision. Knowllence is a methodological solution integrator into PLM 2.0. In a changing and uncertain, multicultural and complex environment, supporting the product/process development process with proven methodologies is no longer an option. In complement to the existing PDMs, Knowllence launches TDC System (*), a system engineering platform:

To model the processes and guide the designers through the use of appropriate software modules: need analysis, requirement management, risk analysis, TRIZ, systematic innovation, etc.

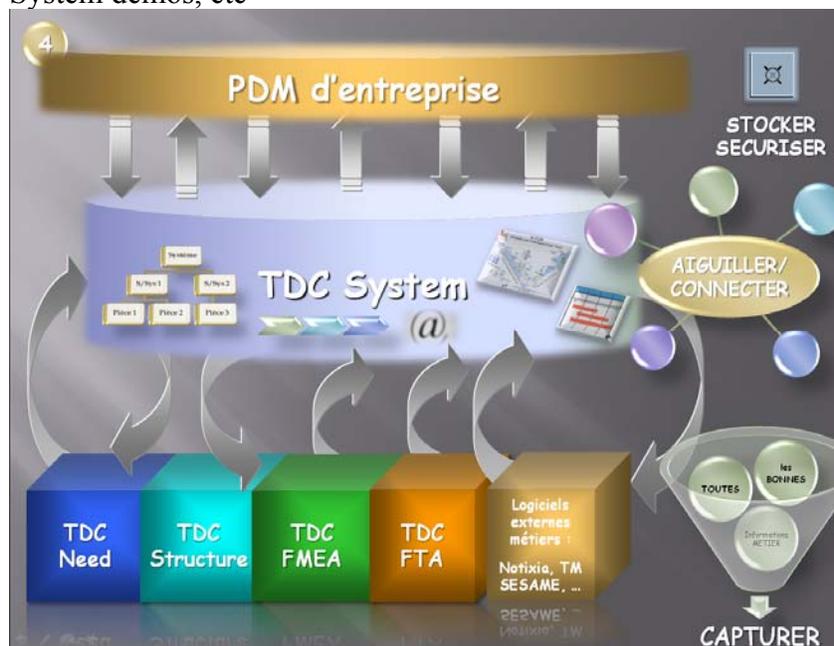
To direct and connect the information from the capture tools (TDC Worksuite captures the relevant data...) and from the storage/protection tools.

To alert the project teams of any impacting change.

To inform on schedules, products and processes.

Read more: http://www.knowllence.com/en/products/tdc_system.php

Knowllence will detail these elements during several meetings in June in Paris: requirements management, TDC System demos, etc



*TDC System is one of the first achievements of the “CoDeKF” R&D programme, driven by TDC-Knowllence along with the UTBM (Université de Technologie de Belfort-Montbéliard, France). The project is hallmarked Vehicle of the future cluster.



 [Click here to return to Contents](#)

Financial News

IGE+XAO Turnover in the 3rd Quarter 2007/2008 (in IFRS norms) - Continued Dynamic Expansion 6%

13 June 2008

The IGE+XAO Group announced that: For the first nine months of its fiscal year 2007/2008, IGE+XAO posted a turnover of €15,895,048, an increase of 6.1% compared with 2006/2007. During the third quarter, turnover amounted to €5,429,638, up 5.0% on 2006/2007.

At a commercial level, IGE+XAO has continued to work towards international expansion, signing a partnership with the Indian company Orcan. This Faridabad-based company has an extended distribution network, and can thus offer a wide range of products and services for the industrial automation market. At the same time, the Group has enhanced its service range with the launch of its SaaS offer (Software as a Service) SEE Freedom, offering the customer an all-inclusive contract. The new package includes software, training and maintenance, and is based around SEE Electrical, the IGE+XAO Group's software for SMEs and SMIs.

At a financial level, the Group's published accounts for the six months to 31 January 2008 showed strong growth, with a net profit of 1,787,068 euros, up 68.1% on the previous period and representing a net margin of 17%. At the balance-sheet date, IGE+XAO had 15 million euros of equity (up 13.7%) and more than 12.3 million euros of available cash.

These excellent results confirm the Group's objectives which simultaneously aim for the increase of the turnover and a high level of profitability.

About IGE+XAO:

For over 21 years, the IGE+XAO Group has been a software publisher designing, producing, selling and ensuring the maintenance of a range of Computer-Aided Design (CAD) software. These Electrical CAD software applications have been designed to help manufacturers design and maintain the electrical section of any installation. IGE+XAO has built a complete range of Electrical CAD software applications designed for all industry fields. IGE+XAO products may either run on a stand-alone computer or be deployed on a network. The IGE+XAO Group has about 340 employees spread out in 21 locations and 14 countries. With more than 48,500 licenses sold throughout the world, IGE+XAO is a reference in its domain. For more information, visit <http://www.ige-xao.com>

 [Click here to return to Contents](#)

Implementation Investments

AdFast Corp. Selects Microsoft Dynamics AX 2009 from Fullscope

19 June 2008

Fullscope announced that [AdFast Corp.](#), a leading provider of assembly manufacturing processes based in Montreal, Quebec, Canada, has selected Microsoft Dynamics® AX 2009 to provide an integrated enterprise resource planning solution across its global business units.

AdFast will deploy its new ERP system to adapt to changing customer, supplier and global market demands in an accurate and timely fashion; provide outstanding customer service; and better manage customer relationships.

“Accessing critical business information is crucial for our company to make accurate management decisions,” says Lyne Dandurand, president of Adfast Corp. “We conducted a thorough ERP search and Microsoft Dynamics AX 2009 was simply the best choice for our business. The fact that Microsoft Dynamics AX 2009 offers modules with functionality specifically designed for process manufacturers, and that there are currently thousands of Process Industries for Microsoft Dynamics AX users worldwide, weighed heavily in Adfast’s final selection.”

“With its hybrid manufacturing environment that includes batch chemicals, rivets and engineer-to-order robotics, AdFast Corp. is a great environment for Microsoft Dynamics AX 2009,” said Russell Smith, president of [Fullscope](#). “The latest release can help AdFast better plan and control its discrete operations, and Process Industries for Microsoft Dynamics AX, with its attention to formulas, co- and by-products and lot traceability, is ideal for the process-intensive manufacturing activities.”

 [Click here to return to Contents](#)

Cadence Virtuoso Spectre With Turbo Technology Adopted by National Semiconductor

16 June 2008

[Cadence Design Systems, Inc.](#) announced that National Semiconductor, a leader in energy-efficient analog integrated circuits, has adopted the new version of the Cadence® Virtuoso® Spectre® Circuit Simulator, featuring "turbo" technology for advanced performance with no degradation in SPICE accuracy.

With the increase of complexity that accompanies ever-growing analog and mixed-signal ICs, transistor-level verification is a growing bottleneck in the overall custom IC development process. National is addressing this problem by using the Spectre simulator to verify its large, complex production analog ICs. The Spectre simulator, with its recently announced turbo technology, enables National to improve simulation runtime for design verification—accelerating time to market—with no loss in SPICE accuracy.

"The new turbo technology in the Spectre simulator has reduced the simulation runtime of our complex analog circuits — such as ADCs and high speed PLLs - up to six times over traditional SPICE simulators—and without any loss of accuracy," said Sury Maturi, director for National Semiconductor's Design Automation Group. "We are integrating this new turbo technology into National's design

CIMdata PLM Industry Summary

environment and plan on deploying it to all our design centers worldwide where Spectre has been used in our production flow for many years as our standard SPICE simulator."

The Spectre turbo technology, which includes advanced device model analysis techniques and a built-in multi-threaded algorithm, addresses a broad variety of challenges across all analog design methodologies and process nodes by delivering a five to 10 times performance gain over existing solutions without any loss in accuracy. The turbo technology also efficiently analyzes the potential impact of physical parasitics that can threaten designs in advanced process nodes, delivering up to 10 to 20 times performance gains for designs with large amounts of parasitics.

"We are pleased that National Semiconductor is taking advantage of the advanced performance benefits of the turbo technology we've brought to our Virtuoso Spectre simulator," said Sandeep Mehndiratta, product marketing director at Cadence. "We're continuing to improve performance to address our customers' analog simulation requirements for their challenging complex analog designs, enabling them to ensure silicon success and meet their time-to-market goals."

The turbo technology was introduced in April as a key element of Cadence's advanced node solutions. The Virtuoso Spectre Circuit Simulator provides fast, accurate SPICE-level simulation for tough analog and mixed-signal circuits. A part of Virtuoso Multi-Mode Simulation, it is tightly integrated with the Virtuoso platform and provides detailed transistor-level analysis in multiple domains. Its superior architecture also allows for low memory consumption and high-capacity analysis.

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DEK Printing Machines Improves Global Product Development Collaboration with the PTC® Product Development System

16 June 2008

[PTC](#) announced that DEK Printing Machines (DEK), a leading global provider of equipment and processes for the high accuracy mass imaging of electronic materials, has expanded its deployment of the PTC Product Development System (PDS) to include Windchill for content and process management. With the existing use of PTC Pro/ENGINEER®, PTC's 3D parametric CAD/CAM/CAE software for product design, Windchill now enables DEK to improve internal project collaboration within their six global sites and external project collaboration with their suppliers and partners.

"Using Pro/ENGINEER, we have been able to produce a broad set of products based on a product platform strategy and modular sub-assemblies. The further adoption of the PTC® PDS has allowed much quicker and more cost effective product development and in turn has given us the benefit of accelerated manufacturing processes," said Dick Johnson, Development Manager DEK Printing. "The introduction of Windchill enables us to make our product development data accessible beyond individual design teams to the entire global enterprise, providing the right people access to the right data at the right time."

DEK designs and manufactures specialist electronics imaging systems used by major electronics manufacturers and subcontractors for surface mount silicon chip technology and PCB assemblies for products ranging from cell phones, robots and missiles to toys and medical equipment. The company operates manufacturing plants in the UK and China, the design teams are located in the UK, Germany, India and US. Service centers are run in 18 locations worldwide.

"Our suppliers were using different systems," said Mr. Johnson. "Paper drawings were being created

from the CAD models, leading to delays and problems in interpretation. The introduction of Windchill enabled our suppliers to collaborate more efficiently by building components directly from DEK's 3D models which has led to improvements in our overall productivity."

"DEK prides itself on being a developer of leading-edge high-technology products and services, requiring them to constantly evaluate their technology strategy for maximum global competitiveness," said Chad Hawkinson, vice president electronics and high tech product strategy, PTC. "PTC's product development system provides an integral and flexible architecture that makes it easy for customers to adopt new capabilities to further enhance their product development processes. We are proud to support DEK's product development needs as it continues executing its industry leadership."

 [Click here to return to Contents](#)

Delcam Software Used to Recreate Porcelain History

17 June 2008

Delcam's range of design and manufacturing software is being used by the Imperial Porcelain Manufactory, in Saint Petersburg, Russia, to create duplicates of antiques and to produce new designs. The Total Modelling approach within Delcam's PowerSHAPE design software has substantially increased the design flexibility, while wide range of machining strategies in the PowerMILL CAM system has reduced machining times.

Imperial Porcelain was established in 1744 by Empress Elizabeth, the daughter of Peter the Great. Its designs are included in the collections of the world's biggest museums and they regularly appear at prestige auctions like Sotheby's and Christie's. To date, the complete range of products consists of four thousand different styles, from everyday services and souvenirs, to festive services and vases, animal sculptures and ornamental dishes.

"First of all, we like the flexibility of Delcam software and also the comprehensive approach which it offers in solving our problems," says Kirill Pimenov, Director of the workshop specialising in the manufacture of Imperial Porcelain's highest-quality products. "The software perfectly combines solid, surface and triangle modelling with functionality for reverse engineering and artistic sculpting. All this gives our designers complete freedom in choosing the methods they wish to use to develop new products."

"They don't feel the restrictions which exist in traditional CAD systems," he added. "We don't need to simplify any part's design because of the limitations in the software. For example, now we can easily add complex decoration by wrapping a relief onto a CAD model using the ArtCAM engraving software."

The first project for the Delcam software was to create a replica of an antique vase with two female figures that was made originally during the reign of Emperor Alexander the First. The design was large and contained complex geometry that would be difficult to mill so the designers decided to divide the STL model of the vase into a set of smaller sections, machine the moulds for these pieces and then assemble the moulded parts.

The first stage was to use the reverse engineering program to capture the original design. An important benefit of using Delcam's CopyCAD software was the ability to create parting lines, which could be used afterwards in PowerSHAPE to generate the parting surfaces for the moulds. The completed STL models were imported to into PowerMILL. The main benefit at this stage was the ability to analyse and

improve parameters such as machining time, toolpaths and strategies, so users could choose the optimum alternatives before generating any NC code.

“To be a successful company in our field, we must keep up to date and use new technologies, but not forget about our experience and traditions,” said Evgeniy Kornushin, Chief Technical Officer at Imperial Porcelain. “We have received constant understanding and support from Delcam in maintaining this balance”.

 [Click here to return to Contents](#)

Flow Simulation Helps Solve Power LED Overheating Problem in One Day

17 June 2008

Voxdale, a Belgium based engineering consulting firm, used Flomerics’ EFD.Pro computational fluid dynamics (CFD) software to solve a power light emitting diode (LED) thermal management problem in just one day. The initial prototype of the LED system overheated to the point that the amount of light delivered by the device and its lifetime were both substantially reduced. Voxdale engineers used the CFD results to redesign the housing in just one day to improve airflow, which eliminated overheating and increased light output and life to the desired levels.

The recent innovation of high power LEDs has the potential to dramatically reduce the amount of power required for lighting residential and commercial buildings. Useful life for white LEDs can range from approximately 6,000 hours to more than 50,000 hours compared to less than 2,000 hours for incandescent bulbs. Thermal design typically represents the greatest challenge in LED system design projects because 75% to 85% of the energy used to drive LEDs is converted to heat and must be conducted from the LED die.

“The lighting systems manufacturer built a prototype of their design and discovered that the temperature of the LED quickly rose above its maximum operating temperature,” said Koen Beyers, President of Voxdale. “The manufacturer was anxious to get their product for market. Who knows how long it would have taken them to solve the problem by modifying and re-testing the prototype until they found a design that worked. The big problem with this approach is that you don’t have any idea what is causing the problem so you are essentially flailing around in the dark.”

“In the past, CFD required the user to have a deep understanding of the computational aspects of fluid dynamics in order to be certain of obtaining accurate results,” Beyers said. “But in the last few years a new generation of CFD software has been introduced that eliminates the need for engineers to master the computational part of CFD and instead allows them to focus on the fluid dynamics of the product. EFD.Pro, the CFD software that we use, uses native Pro/ENGINEER computer-aided design (CAD) data and automatically grids the flow space and manages flow parameters as object-based features.”

Beyers modeled the prototype using Pro/ENGINEER and entered the materials properties and boundary conditions required for CFD simulation. Defining all of the information needed to convert the CAD geometry to a CFD model took about 30 minutes. Then Beyers gave the command for the CFD software to mesh the fluid path around and through the housing. The simulation results showed the original designers had not provided enough outlets to enable the air to flow freely through the housing.

Beyers modified the design to increase the outlet area while keeping in mind that the manufacturers wanted to minimize their size for aesthetic reasons. His new design increased the flow through the housing while ensuring that air stayed in the housing long enough for considerable heat to be transferred

CIMdata PLM Industry Summary

to it. He also tried a few different variants of the heat sink to optimize their geometry in order to gain a bit more reduction in the size of the outlets. The new design met all of the client's requirements.

For more information about EFD.Pro, visit <http://www.flomerics.com/products/efdpro/>

 [Click here to return to Contents](#)

HUSCO Uses MathWorks Products to Create Intelligent Valve Controllers for 20-Ton Excavator

17 June 2008

The MathWorks announced that [HUSCO International](#), a global leader in the development and manufacture of hydraulic and electrohydraulic controls, used MathWorks products to create a sophisticated “smart” valve for a 20-ton excavator using [Intelligent Control Valve \(INCOVA\)](#) technology.

Using [Model-Based Design](#) and MathWorks products, such as [Simulink](#), [Real-Time Workshop](#), and [xPC Target](#), enabled HUSCO engineers to design and develop the control system for a new valve in less than three months, 50 percent faster than prior designs. With Simulink, HUSCO engineers were able to develop a control system design that can be integrated with a broad range of valve applications, each having different numbers of cylinders. Using Real-Time Workshop to generate code from the Simulink model, HUSCO engineers were able to implement engineering design changes within an hour, roughly eight times faster than previous projects. As a result, HUSCO is able to fully leverage their investment in the design on future projects.

“By electronically controlling the valves with our INCOVA technology, we increase excavator efficiency by a number of measures,” said Darren Hartman, software team leader at HUSCO International. “The control, however, requires optimization and debugging, which is not safe on a live excavator. By working in Simulink, we could model and simulate the design, make adjustments to optimize performance, and generate production code—all from our desks.”

“Model-Based Design enables engineers to develop, implement, and verify their software designs in a single environment through the use of graphical models for the algorithms and production code generation,” said Jon Friedman, automotive industry marketing manager at The MathWorks.

“Engineering trade studies can be easily conducted by synthesizing and analyzing many different model topologies before implementing the best design. Additionally, the same models can be used to verify that an engineering change achieves the desired result in a single deployed environment. This reuse simplifies the design process and enables faster iteration cycles.”

For the INCOVA project, over 30 HUSCO engineers in three countries collaborated and communicated effectively through the adoption of Model-Based Design. “In the past, our systems engineers had to consider hardware details, such as the number of bits of accuracy, and worry about communicating the design to the software engineer. With MathWorks tools for Model-Based Design, the system engineer can focus on controls, not on the details of the target hardware,” said Hartman.

 [Click here to return to Contents](#)

Siemens PLM Software Sponsored Race Teams Bring Home Milestone Wins

20 June 2008

Siemens PLM Software announced that Siemens PLM Software-sponsored Joe Gibbs Racing® and

CIMdata PLM Industry Summary

Hendrick Motorsports – whose cars are developed with the help of Siemens PLM Software technology – notched milestone NASCAR® wins.

Joe Gibbs Racing's Joey Logano cruised to victory in the Meijer 300 at Kentucky Speedway in his third series start. Logano, at 18 years, 21 days old became the youngest driver in history to win a NASCAR Nationwide Series event.

Hendrick Motorsports' Dale Earnhardt Jr., currently ranked third in the NASCAR Sprint Cup® Series standings, won the Lifelock 400 at Michigan International Speedway. This was Earnhardt's 18th career win and his first with Hendrick Motorsports.

“Siemens PLM Software congratulates the race teams and drivers on their milestone wins,” said Dave Shirk, executive vice president of Global Marketing for Siemens PLM Software. “Siemens PLM Software is proud of our relationship with the racing teams and along with our customers is pleased to know that our solutions help the teams succeed.”

About Joe Gibbs Racing

Joe Gibbs Racing (JGR) is one of the premier organizations in NASCAR, currently fielding three NASCAR Sprint Cup Series teams, two NASCAR Nationwide Series teams and a driver development program. Its driver lineup consists of Tony Stewart, Denny Hamlin and Kyle Busch in the Sprint Cup Series; Stewart, Hamlin and Busch in the Nationwide Series; and Joey Logano and Marc Davis in the NASCAR Camping World Series East. Based in Huntersville, N.C., and owned by Joe Gibbs – a three-time Super Bowl winner as head coach of the Washington Redskins and a member of the Pro Football Hall of Fame – JGR has competed in NASCAR since 1992, winning three Cup Series championships and 80 NASCAR races, including three Brickyard 400s and the 1993 Daytona 500.

 [Click here to return to Contents](#)

Synopsys' TCAD Sentaurus Enables Development of Kodak's New Image Sensor Products

18 June 2008

Synopsys, Inc. announced that Kodak, a world leader in image sensor technology, has adopted Synopsys' TCAD Sentaurus™ simulation software to support its research and development of new image sensor products.

The electronic "eyes" that convert light into electrical signals in digital cameras and other imaging devices, image sensors are made up of many individual picture elements, or pixels. The trend toward higher resolution and improved light sensitivity requires increasingly complex and smaller pixel designs, inspiring a new generation of products with higher-quality images and functionality and prompting the need for advanced simulation tools to support product development.

The TCAD Sentaurus product family comprises 2D and 3D process and device simulation tools used for exploring and optimizing semiconductor technologies. Sentaurus includes a full-wave electromagnetic solver to handle the diffraction and polarization of light in modern pixels.

"Kodak's focus is on designing highly advanced image sensors with ultra-low-light performance, high-speed video and manufacturability. The TCAD Sentaurus tools from Synopsys are an important part of our ability to do just that," said Herb Erhardt, manager of Kodak's CMOS Image Sensor business, within the company's Image Sensor Solutions group.

"As in many other microelectronics areas, image sensor design has become highly complex, requiring

advanced physics-based simulation tools to understand the propagation of light through light-absorbing elements (pixels) and its interaction with the electronics within the device," said Terry Ma, vice president, TCAD R&D at Synopsys. "Deployment of Sentaurus at an industry-leading company like Kodak is an important affirmation of our capability in coupling optical and electrical simulation to economically characterize and optimize the design of image sensors."

Kodak's Image Sensor Solutions group (ISS), a leader in the development of high-performance image sensors for the past three decades, is building some of the highest resolution and widest dynamic range sensors currently available on the market, and enabling state-of-the-art digital imaging cameras for a variety of customers. Kodak has relied on the use of precision process, device, and optical simulation tools to assist in the development of its image sensor products.

About [Synopsys](#) TCAD

Technology CAD (TCAD) refers to the use of computer simulation to model semiconductor processing and device operation. TCAD provides insight into the fundamental physical phenomena that ultimately impact performance and yield.

 [Click here to return to Contents](#)

Synopsys Discovery AMS Enables Analog Bits to Achieve 45nm SERDES Verification

18 June 2008

[Synopsys, Inc.](#) announced that Analog Bits, Inc. has deployed Synopsys' Discovery™ AMS, HSPICE® and HSIM™ simulators and WaveView Analyzer™ for sign-off verification of their new family of 45-nanometer (nm) 10-gigabit (Gbit) SERDES devices, which has enabled them to achieve first-silicon success. Analog Bits specializes in designing programmable interconnect solutions, such as multi-protocol SERDES, for systems-on-chips (SoCs) fabricated in nanometer CMOS logic processes.

"Analog Bits is the premier clocking IP supplier with a flawless track record of delivering first-time working silicon at the leading merchant semiconductor foundries and prestigious IDMs," said Mahesh Tirupattur, executive vice president of Analog Bits, Inc. "To maintain our record of excellence, we rely on the accuracy of the HSPICE® simulator, which is supported by silicon-verified models from each of our foundry partners. Synopsys' HSIM™ simulator provides us with high-performance functional verification of our complex analog/mixed-signal IP with 10-15X faster time to results. With the WaveView Analyzer™, we can thoroughly verify critical performance specifications of our 10Gbit SERDES, easily generating eye diagrams to measure jitter and signal integrity of our programmable interconnect solutions."

"At the latest 45-nanometer process node, the HSPICE simulator and HSIM simulator enable customers to accurately verify their analog and mixed-signal designs with the confidence they will be supported by leading semiconductor foundries," said Paul Lo, senior vice president and general manager of the Analog/Mixed-signal Group at Synopsys. "The combination of Synopsys' proven circuit simulation solution and the advanced WaveView Analyzer analysis, verification and debug tool will help enable our customers to deliver high- performance chips on time."

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Texas Southern University Receives Educational Software Grant from AVEVA

16 June 2008

AVEVA has provided its AVEVA PDMS software as an educational grant to Texas Southern University's (TSU) College of Science & Technology, Industrial Technologies program. The mission of AVEVA's educational grant program is to give technical colleges access to the same 3D design and engineering software that is used on hundreds of real-world projects. Due to current shortages of skilled designers and engineers, particularly in Houston's oil and gas industry, graduates of these technical programs are in high demand by Engineering and Owner/Operator firms.

Beginning in the Fall 2008 term, TSU's Department of Industrial Technologies will provide instruction in 3D plant design and engineering utilizing AVEVA PDMS.

Commented Jessie Horner, Chairman, TSU Department of Industrial Technologies: "The primary mission of the TSU's Department of Industrial Technologies is to offer programs of study designed to prepare students as 'management-oriented technical professionals' who have practical knowledge, competencies, skills and training to serve and function in the Industrial/Manufacturing Enterprise System. Technical professionals skilled in the use of 3D design systems, and in particular AVEVA PDMS, are very much in demand, particularly here in Houston, the energy capital of the world. Through its software grant, AVEVA is helping us meet our goal of providing students with technical skills that will provide them with many job opportunities."

Commented Rob Glasier, Head of AVEVA Americas: "Buoyancy in the oil market is driving increased demand for new and refurbished drilling, production, and refining facilities worldwide. The detailed design work for many of these global oil and gas projects is being done by Houston-area Engineering/Procurement/Construction (EPC) firms - many of whom use AVEVA PDMS. This business boom has caused a scarcity of qualified, skilled designers and drafts people. We are very pleased to be a technology partner to a growing list of Houston-area technical schools, colleges and universities, like Texas Southern University, that are addressing the skilled labor shortage facing AVEVA's engineering clientele."

This initiative falls under the umbrella of a Global Academy established by AVEVA to address skills shortage within the engineering industry. AVEVA are committed to supporting the development of the engineers of tomorrow and this program provides the ability to develop market-ready skills that will support the engineer to bring immediate impact to their employer.

 [Click here to return to Contents](#)

The Brazilian Institute of Aeronautics and Space (IAE) Implements LMS solutions in Ground Vibrations Testing

18 June 2008

LMS announced that the Brazilian Institute of Aeronautics and Space (IAE), one of the research organizations of the Brazilian Air Force, is deploying LMS Test.Lab testing systems and LMS Virtual.Lab simulation software to better identify critical vibration modes on ground vibration tests (GVT). Implementation, applications assistance and on-going technical support services are being provided by LMS regional representative SMARTtech, which was instrumental in securing the contract for LMS International.

In efforts to increase safety and improve pre-test predictive capabilities, IAE plans to utilize advanced

CIMdata PLM Industry Summary

LMS technology to identify the dynamic behaviors of aeronautical and aerospace structures investigated. IAE researchers typically predict resonant frequencies of structures using finite-element models updated with frequency response function (FRF) measurement data. In the LMS implementation to improve this process, IAE will use LMS Virtual.Lab simulation software at the pre-test stage to accurately identify critical points of measurement, and subsequently to correlate and update the analysis models. LMS Test.Lab will be used by researchers in performing experimental modal analysis post-processing. The measurements are acquired by a 112-channel LMS SCADAS III front-end with built-in versatile LMS signal-conditioning capabilities.

The system includes LMS PolyMAX, a modal parameter estimator that quickly highlights resonances as colored spikes on amplitude versus frequency plots, allowing researchers to spot eigen frequencies in seconds instead of spending hours pouring through raw FRF data. Automation of this task saves time, yields more consistent results and enables engineers to easily spot resonances that otherwise might not be readily identified. “LMS PolyMAX saves a significant amount of time and enables us to identify vibration modes that previously might have gone undetected with our former manual methods,” explains Dr. Everaldo Barros, manager of the IAE Experimental Modal Analysis Test Group. “This allows us to more closely correlate test measurements with analysis predictions in updating the mathematical models. When applying LMS Test.Lab and LMS Virtual.Lab, our productivity is increased, the engineering group has greater confidence in the results and the system added considerable value in reaching higher analysis accuracy in our projects.”

[LMS](#) was able to cover all the functional requirements with a single integrated solution. This enables IAE to establish a unified approach in identifying modal frequencies in the investigated structures and updating the analysis models. “LMS came up with the most advanced tools and best integrated process solution in addressing the challenge of structural dynamics for our aerospace applications”, Barros says.

“The integration of these technologies into a unified system allows us to efficiently prepare test campaigns, perform the data acquisition with high number of channels, adequately cover all the various excitation modes, accurately identify resonances and easily compare them with those predicted by the FE model. Overall, LMS has enabled us to significantly increase the precision of our mathematical predictions in aerospace applications where accuracy is an absolute must.”

“We are honored for LMS to have an important role in Brazil’s aerospace program development,” says Filip Pintelon, LMS Vice-President and General Manager Test Division. “IAE relies on our advanced tools as well as the support of the dedicated professionals at SMARTtech. Together, this winning combination of technology and know-how benefits IAE and other customers in the worldwide aerospace industry.”



[Click here to return to Contents](#)

Viessmann Selects MSC.Software Solutions for Productivity Gains in Virtual Product Development

16 June 2008

MSC.Software announced that Viessmann, a leading global provider of heating systems, has selected MSC.Software’s enterprise simulation solutions MD Nastran and SimXpert. The new simulation software will enable designers at Viessmann to significantly reduce development time and improve product and process quality.

MSC.Software and Viessmann already have an established long-term relationship, with MSC Nastran and Patran in use since 1996. Viessmann converted to the MSC Masterkey licensing system in 2004

CIMdata PLM Industry Summary

running simulations with MSC Nastran, Marc and Adams. These solutions were complimented by additional software developments and service projects for lifetime prediction of large welded assemblies.

With MD Nastran, Viessmann will expand analysis applications in explicit and implicit dynamics, exterior acoustics, and their links to CFD (Computational Fluid Dynamics) solutions. MD Nastran will also enable multidisciplinary optimization in much early stages of the product development process. MD Nastran is MSC.Software's solver technology which combines the capabilities of MSC Nastran, Marc, Dytran and LS Dyna to a fully integrated cross-functional solution, thereby offering a comprehensive platform for a range multidisciplinary simulation analysis.

With SimXpert Viessmann will target productivity gains in pre-and post-processing as well as a high degree of automation on both feature and process levels. SimXpert is MSC.Software's dedicated simulation environment based on the MD Nastran multidisciplinary solver, and through SimTemplates allows the collection, sharing and reuse of commonly used or best-practice simulation processes.

Viessmann will operate the new MSC.Software solutions under the MSC Enterprise Advantage licensing system – an extension to the flexible Masterkey system which consolidates already implemented solutions while allowing expanded access to the new SimEnterprise technologies such as MD Nastran and SimXpert.

“By expanding application scope and integrating into a multidisciplinary simulation environment we have created the basis for reduced development times and improved product quality,” said Andreas Schubert, Chief Numerical Simulation Service at Viessmann.

“We're very pleased to extend our relationship with Viessmann to now include our latest MD Nastran and SimXpert technologies,” said Amir Mobayen, Executive Vice President for Worldwide Sales and Services, MSC.Software. “The environment at Viessmann clearly demonstrates that the use of simulation can bring significant time and cost benefits in the product development processes of a wide range of industrial applications. We are confident that our new MD Nastran and SimXpert solutions will further add to Viessmann's ability to innovate and compete in their markets.”

 [Click here to return to Contents](#)

Product News

Bunkspeed Releases Free Beta Plug-In for Rhino

19 June 2008

Bunkspeed®, a leading global provider of rendering and visualization software for design, engineering, and marketing, announced the beta release of its HyperShot® plug-in for Rhinoceros®.

The stand-alone patent-pending HyperShot application uses Bunkspeed's technology for real-time photographic rendering. Now this rendering technology operates in conjunction with the 3D industrial design modeler, Rhinoceros.

Phillip Lunn, CEO, Bunkspeed, said “This is an example of how 3D design is supposed to work: The users of Rhinoceros are highly talented designers, engineers, and architects who want the best tools available. The addition of this plug-in makes high-end, photographic rendering easy for them to just simply be creative in 3D, and not have to worry about learning how to use it. This is the way it should

be.”

Phil Carrizzi, Associate Professor and Chair of the Jewelry Design Program at Kendall College of Art and Design previously taught his students using another Rhino plug-in for their rendering needs. Carrizzi recently tested an early beta version of the Bunkspeed plug-in on his own projects.

“Hypershot not only gives me much better renderings than what I was using before -- and way faster - but now that it operates directly within Rhino, it makes the decision to switch to HyperShot even more viable for us. Most Rhino users gravitate to renderers as plug-ins, simply because they don't need to go into a separate application. Now Hypershot fits into that workflow,” explains Carrizzi. “Hypershot is actually a lot easier to use by a long shot.”

In just minutes, users can apply paints, materials, as well as real-world lighting to their Rhinoceros models. Designers can achieve realistic 3D images without leaving their original modeling environment. Because Bunkspeed's continual rendering process gives users a near-instant, high fidelity preview of the final visuals, users can now make aesthetic decisions on the fly.

“The rapid visualization of what a product will look like with a particular material is extremely fast in the HyperShot preview window,” says Carrizzi. “Hypershot for Rhino is vastly quicker than anything I have ever used.”

Another innovation in Hypershot lies in its easy application of materials. To render, users can simply drag the desired color or finish from the palette directly to the model surface.

“The way you select materials in Hypershot through a drag-n-drop approach is another part of the plug-in which I found is unique and gives it a big advantage over the competition,” adds Carrizzi. “In past renderers, you have to go through all these sub-menus and edit the patterns to find the right finish. In HyperShot, all of your materials are open all of the time where you can see them. You can just grab what you want, drop it in, and see how it looks in a preview render that is extremely accurate. Drag-n-drop makes the process a lot faster and a lot more intuitive.”

Bob McNeel, founder of McNeel Associates, and developers of Rhinoceros, comments on the new plug-in.

“It is exciting for us when our users get the chance to add superb tools to those already in Rhinoceros. Bunkspeed makes a top-notch rendering product that will open many doors for designers of all kinds. We will be looking forward to seeing what our users will achieve with this software.”

Rhino users can download the beta version of the plug-in free of charge at

<http://www.bunkspeed.com/hypershot/rhino>.

 [Click here to return to Contents](#)

Cadence Enhances RF Verification With High-Performance 'Turbo' Technology and Comprehensive Electromagnetic Analysis

16 June 2008

Cadence Design Systems, Inc. introduced a new simulation technology to address the challenges of verifying wireless integrated circuits implemented in advanced CMOS process nodes. Cadence has added the "turbo" technology it recently brought to the Virtuoso® Spectre® Circuit Simulator to its RF analysis. The result is performance improvements of two to five times—sometimes greater—for analysis and verification of large RF circuits targeting advanced CMOS process nodes, and with no degradation

in accuracy.

"As developers and IP providers of some of the most advanced RFIC designs, we have found that Virtuoso Spectre with turbo technology delivered six times performance improvement for RF analysis of some of our most complex RF analog circuits, without any compromise of accuracy," said Tom Riley, CTO at Kaben Wireless Silicon. "These sampled-RF circuits have enough moving parts to be a convergence challenge for any simulator. The new turbo technology is easy to learn and use for someone familiar with using the Virtuoso Spectre simulator. "

"We design high-performance communication front-ends for wireless, wired, and fiber optics physical layers in advanced CMOS process nodes," said Emad Afifi, vice president of Engineering at Ensphere Solutions, Inc. "When we ran Spectre with turbo technology and accurate parasitic reduction on some of our leading-edge analog and RF circuits, simulation time was reduced by more than six times without any accuracy degradation. We expect this new technology to improve the productivity of our engineers and reduce our time to market."

This technology complements a complete manufacturability-aware solution from Cadence for design, implementation and verification of RF integrated circuits (RFICs). Based on the Virtuoso custom design platform, this solution enables designers to deal with the challenge of integrating RF with analog/mixed-signal baseband, and the emerging need for RFIC-focused electromagnetic analysis. It improves time to market and overall design costs through faster and more accurate verification that reduces design turnaround time and expensive silicon respins.

The complete solution includes the Cadence Virtuoso RF Designer, which brings a full-wave fast planar electromagnetic (EM) field solver to the RF/wireless designer's desktop. Virtuoso RF Designer offers designers advanced verification capabilities for faster electromagnetic analysis of complex structures and geometries—all within a single design flow, accelerating chip finishing and verification. Virtuoso RF Designer integrates seamlessly into the Virtuoso front-end and leverages Cadence's patented electromagnetic analysis technology to accelerate and accommodate large designs found in today's RFICs and System-on-Chip (SoC).

The Cadence RFIC solution provides an interactive link between system design and circuit design by integrating with Simulink from The MathWorks.

"RF system designers use MATLAB and Simulink for system design and refining specifications for each RF block in the context of the system," said Ken Karnofsky, director of signal processing and communications marketing, The MathWorks. "Because Cadence integrated Virtuoso Multi-Mode Simulation with MATLAB and Simulink, RFIC designers may insert their block schematics and post-layout netlist directly in the system-level block diagram and use co-simulation to verify that the implementation meets system-level specifications."

In addition, Cadence has developed a toolbox for MATLAB that allows designers to access their simulation results in MATLAB for advanced visualization and post-processing.

"RFIC circuits are critical and challenging components of today's advanced mixed-signal SoCs," said Sandeep Mehndiratta, Virtuoso product marketing group director at Cadence. "Cadence continues to enhance its comprehensive RF solution with leading-edge technologies that enable designers to tackle these challenging designs. With the new turbo-powered Spectre RF and the Virtuoso RF Designer, we are providing our customers with technology that can help them meet their first-pass silicon success and time-to-market goals."

CIMdata PLM Industry Summary

[Cadence](#) will demonstrate its latest RF technology at the International Microwave Symposium, June 15-20 in Atlanta.

 [Click here to return to Contents](#)

Dassault Systèmes Empowers Manufacturers to “Design for the Environment”

18 June 2008

Dassault Systèmes ([DS](#)) unveiled important updates to ENOVIA Materials Compliance Central™ for automotive and high tech industries regulatory compliance. Built on the ENOVIA V6 platform, ENOVIA Materials Compliance Central is a business-process application designed to empower companies to adopt proactive environmental compliance strategies throughout a product’s lifecycle, from design to disposal. New “Eco-Design” capabilities enable automotive and high-tech manufacturers to meet the increasingly-stringent regulations mandated by the EU, specifically the End-of-Life Vehicle (ELV), the Restriction of Hazardous Substances (RoHS) and the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) directives. These regulations are focused on the European market, but automotive and high-tech/electronics manufacturers must concern themselves with a broad variety of other regional compliance mandates such as China RoHS, Korea RoHS-ELV, and California RoHS.

Traditionally, the materials-compliance process has been reactive, where compliance reporting and analysis is done late in the product development lifecycle; this approach can have a major impact on profitability and inhibit a company’s ability to bring new products to market in a timely manner. By being proactive, companies can enhance their environmental stewardship by minimizing the use of hazardous substances in new product development and also reducing the cost impact of the resulting changes as they seek a smaller environmental footprint.

“With the world’s attention focused on ‘green’ issues, manufacturers are facing increased societal pressure beyond EU, Chinese and Korean regulations. Given the thousands of parts and multitude of suppliers necessary to bring a car or semiconductor to market, complying with these regulations is an incredibly complex process,” said Mike Zepp, director of material compliance solutions for Dassault Systèmes. “With ENOVIA Materials Compliance Central, we’re taking this to the next level by empowering companies to build compliance and, ultimately, ‘green’ initiatives into the entire product lifecycle, starting with product design.”

By leveraging the ENOVIA V6 platform, ENOVIA Materials Compliance Central supports Dassault Systèmes vision of PLM 2.0, harnessing collaborative intelligence from diverse online communities. This approach provides key stakeholders with access to material compliance information throughout the product lifecycle from product development to manufacturing to end-of-life recycling. By providing an out-of-the-box solution customers are able to implement industry standard data collection and reporting formats to realize immediate value from their investment. Built on a Service-Oriented Architecture (SOA), all deliverables related to collecting, integrating, analyzing, and reporting material compliance information are accomplished in a single platform and environment, eliminating translation errors and ensuring a “single source of the truth.”

The latest version of ENOVIA Materials Compliance Central includes the following features:

- **Materials Compliance Analysis** — Engineering can easily generate part-level reports to help determine compliance with customer or market specific requirements. Engineering can also analyze the product’s compliance using what-if scenarios;

CIMdata PLM Industry Summary

- **Maximize the Reuse of Compliant Components** — Design engineers can make component selection decisions based on the component’s compliance rating;
- **Assess Impact of New Restricted Substances** — Advanced “where-used” capabilities allow engineers to quickly identify non-compliant components and the products that they are used in. Engineers can then leverage the extensive search capabilities to identify alternatives, or “green parts,” as well as the identification of lead-free options; and
- **Manage Supplier Material Declarations** — Compliance engineers can initiate and send material declaration requests, with due dates and instructions, to its supply chain. Compliance engineers can monitor the supplier’s progress and review, validate and approve/reject all received supplier submissions.

 [Click here to return to Contents](#)

Gerber Technology Announces Availability of Fashion Lifecycle Management (FLM) Workflow™ 8.8

19 June 2008

Gerber Technology announced the release of Fashion Lifecycle Management (FLM) Workflow™ version 8.8, Gerber Technology’s product lifecycle management (PLM) solution for the apparel industry.

Developed with the requirements of fashion in mind, FLM 8.8 provides merchandisers and developers with new and improved features and functionality for greater visibility into product development, design and sourcing in the global marketplace.

With new items being introduced as often as weekly, apparel manufacturers are faced with the ongoing challenge of maintaining visibility and ensuring efficient interaction between the merchandising, design, and product development functions. Gerber’s FLM Workflow 8.8 is designed to help merchandisers connect in real-time with designers, suppliers and buyers throughout the development process, so that products can be created, managed, tracked and delivered efficiently and more cost effectively to the market.

“The enhancements in version 8.8 increase visibility throughout the organization. This makes FLM Workflow a decision tool for senior management, as well as a collaboration tool for product developers,” said Holly Beum, director of software product management at Gerber Technology. “Gerber continues to innovate and expand features to meet customer needs for increased efficiency throughout the value chain.”

Enhanced Merchandising and Product Development Features

The latest version of FLM Workflow 8.8 includes the following enhancements:

- **Home Page** – provides a snapshot of the product line’s current state with the most relevant information at the user’s fingertips. The home page can be configured to support portal windows that display dashboard reports or link to external websites.
- **Workplace Menu** – allows users to quickly link to their most frequently-accessed areas.
- **Built-in Reporting Tool** – enables users to create, filter, save and share detailed reports that provide views into all functions of the supply chain. From these reports, Dashboard Reports can be created to

CIMdata PLM Industry Summary

visually display the information on the home page. These graphic reports enable users to drill down to the source documents to provide access to the root data.

- **Real-Time Visibility Tool** – provides real-time, editable views into functions throughout the system. Multiple data types and their respective schedule workflows can be combined into one view, allowing users to access and edit multiple data points in one click.
- **Self-Reporting Capabilities** – allow users to see the overall progression of particular tasks, filter to the segment of data most important to them, and then easily view completion percentages without having to separately create detailed reports.
- **What-If Scenario Date Calculator** - allows users to track the development of a specific product and view how changes made to a task will affect the due date and overall outcome of the product.

 [Click here to return to Contents](#)

Intercim and Dassault Systèmes Sign Memorandum of Understanding

16 June 2008

[Intercim LLC](#), a global leader in manufacturing and production operations management software solutions for advanced and highly regulated industries and Dassault Systèmes (DS) (Nasdaq: DASTY; Euronext Paris: #13065, DSY.PA), a world leader in 3D and Product Lifecycle Management (PLM) solutions, have signed a Memorandum of Understanding focused on combined solutions for the aerospace and defense industry. The objective of this MOU is to provide the aerospace and defense industry with Intercim's manufacturing operations management solution integrated with Dassault Systèmes' V6 platform.

While integration already exists between Dassault Systèmes' V5 PLM platform and Intercim manufacturing execution systems (MES) solutions, Intercim and DS have decided to take a significant step forward to leverage the openness, online content and creation capabilities of Dassault Systèmes' recently announced V6 platform. Intercim will provide customers with a complete manufacturing operations management system integrated with V6's single PLM platform for intellectual property management. This unique partnership will create a Web-based solution that offers the following value to customers:

- Visibility and traceability to all manufacturing stakeholders of shop floor execution, with a real-time 3D access to the "as-built" product information.
- Increased reactivity to plant-floor issues with real-time visibility across the extended enterprise of all production assets directly within the 3D production model, and with immediate corrective action validation in the virtual model prior to implementation.
- Increase knowledge sharing between the shop-floor and product and manufacturing engineering with a common view and understanding of the virtual product and production system.

"With the introduction of V6 in the market, Dassault Systèmes provides to its manufacturing community customers an online collaborative solution to support PLM 2.0. PLM 2.0 is to PLM what Web 2.0 is to the Web. Everyone can connect to a single intellectual property PLM management solution to enrich and share the manufacturing assets of the enterprise," explained Pascal Lecland, vice president R&D, DELMIA, [Dassault Systèmes](#). "Intercim's partnership is key for Dassault Systèmes and a major step forward for the aerospace and defense industry."

CIMdata PLM Industry Summary

Intercim solutions bring customer value through their ability to collect operational best practices and communicate shop floor non-conformances with the engineering and design teams. We are proud to expand our current partnership with a leading MES company, into DELMIA's first V6 partnership, in order to provide our customers with a unique PLM-MES solution."

Intercim president and CEO, John Todd says: "Intercim chose to tighten and to strongly commit to this partnership because Dassault Systèmes is the undisputed leader both in terms of vision and products for PLM 2.0. We are looking forward to many, many common successes and are well underway to achieving this vision of manufacturing operations management and PLM with several of our joint customers."

 [Click here to return to Contents](#)

Kineo CAM Support for 3Dconnexion 3D Mice Directly Connects CAD Professionals to 3D Content

17 June 2008

3Dconnexion, a Logitech company, announced that its line of 3D mice is now supported by Kineo Path Planner™, an application that assists CAD mechanical engineers in dynamic assembly and dismounting simulations and analysis. 3Dconnexion's 3D mice enable CAD designers working with Kineo Path Planner to more intuitively and naturally interact with the 3D environment, significantly decreasing time spent on managing application complexity and allowing more time for critical design and manufacturing needs.

Unlike mice confined to motion on two flat planes, 3Dconnexion's 3D mice enable CAD professionals to move in all three dimensions simultaneously, using six degrees of freedom. By gently lifting, pressing and turning the controller, users working in Kineo Path Planner can navigate their camera to pan, zoom and rotate without stopping to select commands. When navigating in 3D, realistic simulations can be created with far greater ease for significantly improved design process productivity. CAD professionals can inspect and move through and around designs and toggle to move parts, sub-parts and assemblies in an intuitive way without the stops and starts of working with a keyboard and traditional mouse only.

"Kineo CAM's support for our 3D mice underscores 3Dconnexion's commitment to enable design communities to connect directly to the 3D design environment of today's sophisticated and complex applications," said Dieter Neujahr, president of 3Dconnexion. "Using our devices with the latest version of Kineo Path Planner provides an immersive design experience that dramatically improves the design and manufacturing process from start to finish."

Kineo CAM provides a large range of business solutions, from stand-alone to fully integrated software, to large companies and organizations in MCAD and manufacturing, enabling users to save money, shorten development time and increase quality in product design and process. Leading French automobile and motorcycle manufacturer PSA Peugeot Citroën has been using Kineo to manage critical elements of maintenance and repair for customers and is integrating the latest release of Kineo Path Planner and 3Dconnexion's SpaceNavigator™ 3D mouse to streamline processes further.

"At the servicing organization 'Direction Après-Vente' of PSA Peugeot Citroën, the teams verify and validate the assembly and the disassembly to be performed for servicing and repairing our vehicles," said Gérard Florina, CAD manager and Frédéric Marques, CAD Expert "Direction Après-Vente" of PSA Peugeot Citroën. "For four years, the Kineo software has been used to automatically find trajectories. Our wish was to be able to guide the component to be dismantled during the automatic computation. Our goal was to combine the power of computation of the software with the job know-how of our users;

CIMdata PLM Industry Summary

it is achievable with the new release of the Kineo software that we use with 3Dconnexion's 3D mice."

3Dconnexion provides advanced and affordable 3D mice that are supported by more than 130 of today's leading 3D applications, including Adobe® Photoshop® CS3 Extended and Acrobat® 3D, Autodesk 3ds Max® and Maya®, CATIA, Google Earth™ and SketchUp®, Microsoft® Virtual Earth™, NX™, Pro/ENGINEER®, Second Life Grid® Platform, SolidWorks®, and all of the top-tier 3D CAD applications. For a complete list of applications supported by 3Dconnexion, visit:

www.3dconnexion.com/solutions/cad/all_sup_app.php.

Pricing and Availability

Kineo Path Planner version 2.4 supports 3Dconnexion's product line on Windows® XP. SpaceNavigator Personal Edition (MSRP \$59), SpaceNavigator Standard Edition (MSRP \$99), SpaceNavigator for Notebooks (MSRP \$129), SpaceExplorer™ (MSRP \$299), and SpacePilot™ (MSRP \$399) are available from major online resellers including Amazon, Buy.com, CDW, Dell, and PC Mall as well as directly at <http://www.3dconnexion.com>.



[Click here to return to Contents](#)

Lattice Technology Releases XVL Converter for Autodesk Inventor 2009

19 June 2008

[Lattice Technology](#) announced the release of the XVL Converter Plug-in for Inventor, which supports Autodesk Inventor 2009. The XVL converter is scheduled to ship on June 30, 2008. The XVL Translator Add-in for Inventor 2008 is already available for free download from Autodesk Labs at <http://labs.autodesk.com/utilities/xvltranslator/>.

The XVL Converter Plug-in for Inventor allows users to convert 3D data created in the latest version of Autodesk Inventor, the leading 3D design software for digital prototyping needs, into XVL for downstream uses. The 3D data in XVL can be rapidly reused in spreadsheets, animations, design review of assemblies, training and instruction manuals, and more.

XVL (eXtensible Virtual world description Language) is an ultra-compressed technology used for dramatically reducing the file size of 3D models created by an engineering CAD system without losing their fidelity. Compared with 3D standardized formats such as VRLM and IGES, it can dramatically reduce the data size while also keeping the data precision up to 1/100 from the original CAD data. XVL enables the utilization of 3D data in various divisions, such as design review by production, visual presentation by the sales teams and in service manuals created by the customer services divisions. XVL has been widely employed by industries such as automotive manufacturing that require large 3D assembly review in a lightweight, usable format.

In addition to the Converter Plug-in, Lattice also plans to release its XVL Converter Light for Inventor later this summer, which can convert multiple files of Inventor data to XVL in batch mode. It allows users to automatically convert CAD data quickly and easily using a simple command line program, and then leave the software to automatically deliver the conversions needed.

Autodesk's Digital Prototyping strategy for mechanical engineering, under the banner of "Experience it before it's real", has been offering and promoting its cutting-edge Autodesk Inventor environment to manufacturing industries to enable design review, simulation, analysis and design verification using 3D digital data. The release of the converter by Lattice substantially improves the convenience and productivity of engineers by creating a smooth data pipeline from Autodesk Inventor to XVL.

"Autodesk's Digital Prototyping strategy is a key to the rapidly growing demand to use and reuse 3D data in efficient and economic ways," commented Bill Barnes, GM, Lattice Technology. "XVL fits neatly into the strategy by enabling reuse of massive 3D assemblies and 3D parts for rapid design review, sharing of 3D data and inclusion in printed instruction manuals, online support documents, spreadsheets, PDFs and more. We are excited to be able to support this strategy with XVL."

 [Click here to return to Contents](#)

LightWork Design Unveils New Rendering Solution

17 June 2008

LightWork Design announced the launch of a new rendering solution: LightWorks Studio Edition, or "SE".

With LightWorks SE the Company has drawn on its wealth of rendering experience as a well-established player within the market, to provide a new approach to integrated rendering. Its industry-solutions based approach means that each product is tailored to meet specific customer requirements, delivering exactly the solution they need for their users.

A key element of LightWorks SE is the inclusion of pre-packaged LightWorks content settings which have encapsulated all our best practice experience in rendering by creating ready to use data settings which work together to streamline users' workflow. Customers can include complex lighting settings within their application that give the best results to the user every time, without the user or the application developer having to become an expert in complex rendering.

David Forrester, Managing Director at LightWork Design commented, "I am very excited about the release of LightWorks SE because it provides a one-stop solution for our customers who are wanting to introduce quality integrated rendering within their products. LightWork Design has been meeting customer needs for almost 20 years now and we will continue to work with all of our customers to provide them with the best solutions so that they can better meet the needs of their own users."

To find out more about how LightWorks SE is tailored to meet customers' needs and deliver the solutions they are looking for, go to [the LightWorks SE webpage](#)

 [Click here to return to Contents](#)

Mentor Graphics Delivers High-Performance Platform for the Accelerated Verification of Multimedia Applications

17 June 2008

Mentor Graphics Corp. announced its high-performance platform to accelerate the verification of multimedia products. This new platform enables designers to test their complete system, including graphics, digital TV, home entertainment systems, and mobile multimedia applications, as well as employ real-world multimedia stimulus early in the development cycle – reducing the total system verification process from weeks to hours. The platform consists of the Veloce® family of hardware-assisted verification products and the iSolve™ Multimedia product, which provides a cost-effective and efficient solution, delivering a dynamic and accurate multimedia verification environment.

New advancements in digital multimedia and entertainment technologies affect us every day - enhancing our lifestyles, experiences, work, leisure, and increase our ability to communicate. With the explosion of

these products, including their associated standards and ever-changing interface specifications, the need for a sophisticated way to accurately and quickly verify such systems has grown into a huge demand.

Complete Multimedia Verification Platform

“The growth in multimedia products has been astonishing over the last few years, affecting billions of people worldwide with their innovative technologies, and changing the way we live every day,” said Eric Solosse, vice president and general manager, Mentor Emulation Division. “The challenges for those who create such multimedia products are huge, diverse, and complex – requiring a new breed of verification products to solve the technical demands generated by such multimedia applications and systems. We took a novel approach to solving these challenges, by providing a fast, flexible, and user-configurable multimedia test and analysis environment that has not been seen before with similar in-circuit emulation (ICE) solutions available on the market today.”

Combined with the Veloce product family, the iSolve Multimedia platform delivers a high-performance and easy-to-use system verification environment to develop new and leading-edge multimedia products, without compromising delivery schedules. Key benefits of the solution include:

- Automated creation of multimedia video and audio formats on demand
- User-controllable streaming of multimedia data to verify and stress-test the SoC design
- Simultaneous audio and video streaming and analysis
- Full-featured graphical analysis tools for video and audio data to detect design flaws and increase productivity
- Support for multiple standards:
 - o Graphics :RGB, YUV (CCIR656)
 - o Digital TV: HDMI 1.3
 - o Mobile Applications: SMIA 1.0 (Raw Bayer)
 - o Audio formats: I2C, PCM, S/PDIF
- Support for user-definable data, such as MPEG2/4, for verifying the design.
- Server-Client architecture to support remote usage across worldwide development sites

The iSolve multimedia verification platform can be used with a traditional In-Circuit Emulation as well as a high-performance Transaction-Based Acceleration mode of operation. The ability to mix and match traditional ICE capabilities with high-performance Transaction-Based Acceleration facilitates the smooth transition from simulation centric use models to In-Circuit Emulation.

Product Availability

The solution is available for deployment at customer sites, effective immediately. For product information on Mentor’s multimedia verification platform, contact your Mentor Graphics sales representative, call 1-800-547-3000, or visit the website at <http://www.mentor.com/med>

 [Click here to return to Contents](#)

MSC Software Announces Upcoming R3 Releases of Simxpert and Simdesigner to Allow Analysts, Designers, and Suppliers to Simulate More Efficiently in Collaborative Desktop Simulation

Environments

16 June 2008

[MSC.Software](#) announced the upcoming R3 releases of SimXpert and SimDesigner. These two solutions are core components of the company's SimEnterprise offering that together allow analysts, designers, and suppliers to simulate more collaboratively across the extended engineering enterprise by enabling simulation methods and procedures to be captured, automated and reused across design teams.

SimXpert R3 enhances the ability for analysts to capture and automate simulation methods and procedures via templates - within a completely integrated simulation workspace environment. Once methods are captured, simulation best practices can then be disseminated across the extended enterprise. Companies can create repeatable simulation processes so analysts can now focus on other high-value product validation requirements during product development. It also creates gold standard simulation methods for suppliers and others involved in design and analysis to follow. The result is more accurate analysis across the enterprise, better use of resources, and more confidence in simulation results.

Through improved integration with SimXpert and expanded CAD platform support in SimDesigner R3, designers and suppliers working in the CAD environment gain direct access to easy-to-use simulation templates. Thus they can perform first pass analysis with higher degrees of confidence, better comprehend and use analysis results to drive smarter design decisions, innovate more by exploring more "what-if" scenarios, and expedite time to market by identifying design flaws earlier in the design process.

"SimXpert and SimDesigner are integral components of MSC.Software's SimEnterprise," said Bill Weyand, chief executive officer, MSC.Software. "Through these solutions, engineers become more efficient with simulation best practice capture and reuse, thereby saving both time and money. MSC.Software is committed to enhancing our core technology to meet customer needs and evolving the solution set to help customers increase business value and innovation by taking the path forward to enterprise simulation with SimEnterprise."

"The template process automation capabilities available within SimXpert are superior to any other solution on the market," explained Glenn Wienkoop, President of MSC.Software. "The ability to retrieve, execute, and post process templates in the CAD environment using SimDesigner is unique in the industry. Giving designers the ability to accurately perform simulation means specialists are free to focus on more advanced simulation requirements or high value projects, more resources are available to validate design performance, so more concepts can be checked during the design process, and more new products can be developed concurrently with the same number of resources. This adds significant value by moving validation earlier on in the design process, reducing time to market and positively impacting the bottom line."

 [Click here to return to Contents](#)

New Version of aniDim3nsion™ for Product Configuration Visualization

18 June 2008

Animech Technologies announced the release of aniDim3nsion™ 1.5, an innovative tool for visualization of product configurations.

With aniDim3nsion you can visualize a product configuration in front of customers directly in 3D graphics. Companies often experience a growing selling cost, long sales cycles and numerous errors in

CIMdata PLM Industry Summary

their quotations. They also feel frustration when trying to communicate products to customers. Many wish to spend less time on manual work and on technical support. Using a sales configurator is an effective way of transferring technical knowledge to your sales personnel: a way of bridging the gap between engineering and sales departments. aniDim3nsion works as an extension of a configurator, pushing information further out and closer to the customer, making them even more involved in the actual creation of the product.

The new version of aniDim3nsion has several new functionalities further improving the usability; where the possibility to ghost and focus at product modules should be mentioned. This is another great functionality inherited from aniPart™, the tool for creation of interactive instructions for service and assembly. For more information about aniDim3nsion™ take a look at

<http://www.animechtechnologies.com/products/anidim3nsion/>

Animech Technologies has been granted financing from Vinnova (Swedish Governmental Agency for Innovation Systems) for a research assignment related to visual product configuration. Animech Technologies is now looking for companies interested to be part of this research. Selected companies will be part of an exploratory study and some will also be involved in a deeper research, please contact [Animech Technologies](#) for more information.

Read more about their solutions at <http://www.animechtechnologies.com>



[Click here to return to Contents](#)

Parallel Processing Introduced in TransMagic 3D CAD Interoperability Software

17 June 2008

TransMagic Inc. announced the release of its latest product update, TransMagic R7 SP2. This version introduces parallel processing technology, a new JT read/write add-on translator, major CAD version support and other usability features. Large CAD file translation and geometry repair operations are very compute-intensive. With this release, all TransMagic products can perform multiple operations simultaneously by taking advantage of dual and quad core computers. This combination of hardware and software technologies results in significant performance gains for TransMagic users.

“Many TransMagic customers are translating hundreds of files per day,” said Todd Reade, President of TransMagic. “Implementing parallel processing allows our users to translate and repair numerous files in a much shorter period of time.”

TransMagic now reads and writes JT files in both visualization and B-Rep forms. JT files with B-Rep information can be translated as geometry for use in any CAD/CAM/CAE application. With the addition of JT, TransMagic now offers more than 150 different data exchange options in one application.

TransMagic R7 SP2 products are officially certified by Autodesk for use with Inventor 2009. This release includes updated CAD version support for CATIA V5 R18, SolidWorks 2008 and ACIS R18 file formats.

New split window view ports, high resolution 2D image processing and other usability features in this release will help many engineers successfully translate, repair and share 3D files for vendors and a variety of downstream users. TransMagic software products reduce the costs of reusing CAD designs in manufacturing applications and eliminate the unnecessary delays and expenses associated with redrafting designs, outsourcing file translations and sharing design data. Visit <http://www.transmagic.com> for a free trial download.

 [Click here to return to Contents](#)

Right Hemisphere's New Deep Exploration Software Ships, Features Support for 3D Manufacturing Instructions

16 June 2008

Right Hemisphere® announced the pricing and immediate availability of its new Deep Exploration™ 5.5 client software. The company also announced the immediate availability of Right Hemisphere Deep View 5.5. Deep View 5.5 is a free, standalone 2D and 3D graphics viewing application that can also embed product data directly into industry standard document formats such as Microsoft® PowerPoint®, Word, and Excel®, or one click publish to Adobe® PDF®. Introduced in April, Deep Exploration 5.5 features advanced support for the creation and output of real-time 3D manufacturing instructions. The software also offers several new licensing options, user interface enhancements for improved ease of use and workflows, and new technical illustration capabilities. Content generated by Deep Exploration 5.5 will require an upgrade to Deep View 5.5 to take advantage of the new output features.

Deep Exploration 5.5 can be purchased starting today from the Right Hemisphere Web site or through authorized resellers. The software is available in two versions: Deep Exploration CAD Edition -- which includes translators to import computer-aided design (CAD) data -- and Deep Exploration Standard Edition, which does not. However, Deep Exploration Standard Edition now supports advanced editing and output functionality previously only available in the CAD Edition. Manufacturers who have implemented Right Hemisphere's Deep Server™ enterprise software -- which includes CAD format translation capabilities -- can opt to purchase the lower cost Standard Edition to fully address their downstream document production needs.

Additionally, with the Deep Exploration 5.5 release, Right Hemisphere now offers multiple subscription licensing options. Customers can choose between a one-year and a three-year subscription for a floating network license, a fixed network license, or a fixed standalone license. See the table below for license pricing.

Product	License Type	Price (USD)
Standard Edition	1 Year Fixed Standalone or Fixed Network	\$595
Standard Edition	1 Year Floating Network	\$895
Standard Edition	3 Year Fixed Standalone or Fixed Network	\$1,339
Standard Edition	3 Year Floating Network	\$2,014
CAD Edition	1 Year Fixed Standalone or Fixed Network	\$1,995
CAD Edition	1 Year Floating Network	\$2,995
CAD Edition	3 Year Fixed Standalone or Fixed Network	\$4,489
CAD Edition	3 Year Floating Network	\$6,739

Special discounted pricing is also available for existing Deep Exploration customers who are upgrading to Deep Exploration 5.5. For all pricing options see,

CIMdata PLM Industry Summary

http://www.righthemisphere.com/company/press_releases/Deep_Exploration_5_5_Pricing_and_FAQ_v1_5.pdf. To download free trial software, please go to:
<http://www.righthemisphere.com/support/downloads/download.php>.

 [Click here to return to Contents](#)

Students are Welcome to Explore KOMPAS-3D Professional

19 June 2008

ASCON Group announced the availability of Educational License for the Mechanical CAD Solution – KOMPAS-3D for students.

Now all students of official Educational Institutions (including Schools, Colleges, Vocational Schools, Institutes, Universities) are able to experience professional 3D Modelling and 2D Drafting with KOMPAS-3D both at school and at home. KOMPAS-3D student edition will include interactive learning system KOMPAS-ABC that offers the basics of 2D Design as well as the classical process of 3D Solid Modelling, used at thousands of market leading machinery, automotive, aircraft and other enterprises. The version is intended for CAD studying purposes so only non-commercial usage is allowed.

KOMPAS-3D Educational License supplies students worldwide with the full capabilities of powerful, professional, effective and easy-to-learn solutions for 3D and 2D Design, including wide range of add-ons for kinematic and dynamic analyses, 3D-Model recognition and other purposes. Students are able to choose from English, German, French and Czech languages version of KOMPAS.

Educational License of KOMPAS-3D includes:

- Newest Version of KOMPAS-3D (with classical solution for 2D Design -KOMPAS-Graphic);
- BOM Wizard for creating different types of customized BOMs, to be associated with an assembly drawing and 3D-assembly;
- Template Manager for creating parametric 2D/3D libraries, connected to tables;
- KOMPAS-ABC build-in interactive learning system;
- Import/Export Opportunities Basic;
- 3D Model Recognition System for import/export 2D/3D models from other CAD solutions;
- Build-in export to eDrawings Professional;
- Animation Add-On for Motion simulation in KOMPAS-3D.

ASCON welcomes students to prepare for future successful designer carriers with KOMPAS solutions from ASCON. To request a student copy, please, visit <http://ascon.net/edu.php>.

For more information about ASCON or KOMPAS Educational Program, please visit <http://www.ascon.net>.

 [Click here to return to Contents](#)

Subversion 1.5 Now Available Through CollabNet-Sponsored Subversion Open Source Community

19 June 2008

CIMdata PLM Industry Summary

The [CollabNet](#)-sponsored Subversion open source community announced the general availability of Subversion® 1.5, a leading Software Configuration Management (SCM) tool for managing software development and maintenance across distributed teams. Subversion 1.5 includes key features and functionality to help drive developer productivity including:

- Merge tracking for more automated and efficient branch management;
- Sparse checkouts to enable users to check out only a portion of a source tree to reduce the total footprint on their individual workstations;
- Repository sharding and partitioning to more efficiently distribute repository storage across filesystem resources and to improve server performance;
- A proxying system for spreading read-load across multiple repository servers for improved performance.

As the most requested feature, merge tracking and its related functions mark a significant change in the way developers use Subversion for distributed development. Interactive conflict resolution enables users to proactively resolve issues during the merge process. Merge history and annotated logs provide additional information not available in previous Subversion releases, allowing users to query for available changes on different lines of development, and making it easier to back out changes. Subversion 1.5 offers both command line and API access to these operations.

“Measuring by new features alone, Subversion 1.5 is our biggest release since version 1.0 became available in February 2004,” said Karl Fogel, president of the non-profit Subversion Corporation. “In Subversion 1.5, we made a conscious effort to integrate ideas from both individual and corporate users. That process worked quite well, and we will probably continue to use it for future development.”

Available today, Subversion 1.5 can be downloaded at <http://subversion.tigris.org>.

About the Subversion Open Source Community

Subversion is an open source project that can be used to manage changes to any sort of information. Subversion is available under an Apache/BSD-style license which is fully compliant with the Debian Free Software Guidelines. It runs on all modern flavors of Unix, Win32, BeOS, OS/2, OS/400 and MacOS X. To date, it is estimated that Subversion is used by more 3.2 million developers. Find more information at: <http://subversion.tigris.org>.

 [Click here to return to Contents](#)

Synopsys' DesignWare Verification IP Enhanced to Support New SATA 6Gbps Specification

18 June 2008

Synopsys, Inc. announced that its DesignWare® SATA Verification IP now supports SATA 6Gbps transfer rates as defined in the draft Serial ATA International Organization: Serial ATA Revision 3.0 specification. The third generation of the SATA specification doubles the data transfer rate of the 2.6 specification from 3Gbps to 6Gbps, enabling designers to take advantage of the increased throughput rates to move large amounts of data, such as high resolution photos, videos and music. Designers who want to implement a SATA 6Gbps interface can now use [DesignWare Verification IP](#) to significantly speed testbench development time and quickly verify their mass storage system-on-chip (SoC) designs.

The DesignWare Verification IP supports all major simulators and verification languages including

CIMdata PLM Industry Summary

Verilog, SystemVerilog, VHDL and Vera, allowing designers to create a comprehensive SATA- based environment. In addition, the Verification IP for SATA delivers up to 5X performance improvement when used with Synopsys' VCS® simulation tool. Synopsys' comprehensive solution also includes the DesignWare digital controllers and PHY IP for SATA, providing designers with access to a complete SATA solution from a single IP vendor.

"Verification IP plays a critical role in lowering the testbench development time and cost by reducing the need to create a verification environment from the ground up," said John Koeter, senior director of marketing for IP and Systems at Synopsys. "The DesignWare Verification IP with support for 6Gbps enables designers to quickly take advantage of the latest specifications, while lowering integration risk and speeding their product development time."

Availability

The DesignWare Verification IP for SATA with support for 6Gbps is available today as a standalone product, both in the DesignWare Library and VCS Verification Library. For more information, please visit http://www.synopsys.com/products/designware/sata_solutions.html

 [Click here to return to Contents](#)

Valor Expands Channel Partnership with XinJia (HK) Technology Shenzhen, China

18 June 2008

Valor Computerized Systems Ltd. has renewed its partnership agreement with Xinjia (HK) Technology Ltd. Under the new agreement, Xinjia will expand its coverage to include more Valor products for distribution in mainland China, including Valor's latest process engineering platform (vPlan) and manufacturing monitoring and control solution (vManage).

Xinjia (HK) Technology Ltd. has over 10 years of electronics integration experience in mainland China, with a stable customer base that includes various colleges and universities, military research institutes and large state-owned enterprises. The partnership between Xinjia and Valor started in 2003 with Xinjia successfully introducing Valor's Design for Manufacturing (DFM) tools to mainland China market. Since then, the two companies have enjoyed a long-standing successful relationship. In line with the ever-strengthening trend of local electronics manufacturers using software tools to enhance design quality and productivity, Xinjia will continue to promote Valor's DFM tools alongside best-in-class MES solutions.

"We are very proud to have successfully introduced Valor DFM concepts to the enterprises and research institutes in China. Valor's continuous development in recent years has given Xinjia full confidence in delivering more Valor products to our customers, including vPlan and vManage." said Andy Lu, president of Xinjia (HK). "We believe that the long-standing partnership between Valor and Xinjia has not only enhanced the successful introduction of Valor's products and solutions to mainland China, but will also be contributive in the development of China electronics manufacturing market, with the integration of the design, process planning and production." said KH Ong, president of Valor Far East. "The addition of vPlan and vManage to Xinjia's portfolio shows the good prospects of a long-term cooperation between the two companies."

 [Click here to return to Contents](#)

With Newly Extended Modaris 3D Fit Simulation Capabilities, Lectra Promotes the Use of Virtual 3D

Prototyping in the Apparel Industry

12 June 2008

[Lectra](#) announced that the new version of Modaris 3D Fit, a virtual 3D prototyping solution, is now available.

Modaris 3D Fit enables pattern-makers, designers, developers, and sales and marketing teams to simulate and visualize their models in 3D on a virtual mannequin, including the colors, motifs, and fabrics (taking into account their mechanical behavior) originally created in 2D. With Modaris 3D Fit, the look and fit of a garment can be verified, and its style and that of entire collections can be validated.

3D virtual prototyping: accelerating product development cycles and reducing costs

As in the automotive and aeronautical industries and other sectors where virtual 3D prototyping has already proved its worth and become a key element of product development, this technology is now offering numerous advantages for professionals in the fashion industry as well.

Virtual 3D prototyping ensures the quality of a garment and its look and fit in all graded sizes, reduces the number of physical prototypes necessary to finalize a model, and makes communication more fluid among the actors in product development. It thus accelerates the collection development cycle and enables users to overcome the “Fast Fashion”-specific challenges of an ever-increasing number of collections and product variants. Finally, 3D virtual prototyping helps reduce development costs and, as such, is a real competitive advantage for apparel professionals. Modaris 3D Fit stands out as the most advanced solution for the universe of fashion.

“Compared to the traditional method, Modaris 3D Fit lets us finalize models more quickly, with improved accuracy in the proportions and fit. Modaris 3D Fit lets us meet specific customer needs more efficiently. We can guarantee optimal quality and respect their morphological characteristics by using parametric mannequins which we adapt according to their needs. With Modaris 3D Fit we can offer our services to more companies, handle a wider variety of products, and communicate faster,” said Massimo Trambaioli, Managing Director at Pronto Model, a service bureau working for major Italian brands.

“Nowadays, product development costs and delivery times are key elements for all professionals in the apparel industry. With Modaris 3D Fit, virtual 3D prototyping can yield incommensurable reductions—between 30 and 50% on average, depending on the models—in product development cycle times, generating significant cost reductions for our customers,” emphasized Daniel Harari, CEO Lectra. “In addition, by optimizing communication and cooperation among all actors in the product development process, Modaris 3D Fit is also an effective aid to decision-making.”

The new version of Modaris 3D Fit: perfectly adapted to the new realities of the apparel market

In the context of a constantly changing global apparel market, the “plus size” sector is experiencing a period of growth. In France, one in two women is a size 44 or more. In Spain, 60% of the adult population buys clothes over size 44. In the USA, recent studies predict a 15% increase in the “plus size” sector over the next five years.

Taking account of the realities of the market, Lectra has thus enhanced Modaris 3D Fit by adding two new parametric mannequins to its previous eight. These new mannequins—a “plus size” male for simulating garments sized 58 to 66, and a female for sizes 44 to 52—have been designed correspond to the new market segments.

In addition, Lectra has reinforced Modaris 3D Fit’s capacities for checking look and fit by adding new

CIMdata PLM Industry Summary

postures for all its parametric mannequins. Modaris 3D Fit V5R2 also features an enriched library of materials—the most complete such library on the market—now with twenty new supplementary materials bringing the total number to 140. This now make 3D simulation possible for certain knits as well as technical and/or professional clothing.

Modaris 3D Fit: the choice of today's fashion schools for tomorrow's pattern-makers

Aware of the pedagogical interest and potential represented by the mastery of virtual 3D prototyping, numerous fashion schools around the world have already incorporated Modaris 3D Fit into their pattern-making curricula.

“One of the main advantages of Modaris 3D Fit is its capacity to accelerate a company's product development processes. It is also used as support and as a learning aid for each of our students,” explained Mirko Cecchini, professor at the University of Urbino in Italy.

Modaris 3D Fit: Compatible with Windows Vista

As with all new Lectra solutions, Modaris 3D Fit V5R2 is compatible with Microsoft's Windows Vista operating system.

In line with Lectra's strategy of accompanying its customers, Modaris 3D Fit is supported by a range of high value-added professional services delivered by Lectra's trade and solutions experts.

 [Click here to return to Contents](#)

Zuken Launches Board Interchanger for Concurrent Mechanical and PCB Design

18 June 2008

Zuken has partnered with Dassault Systèmes to launch Board Interchanger, a new integrative add-on tool for true concurrent mechanical and PCB design. This offers MCAD engineers interactive access to Zuken's board design data interface within Dassault Systèmes' CATIA V5 solutions for virtual design by linking to CR-5000 Board Designer, providing integration with other workbenches. This integration specifically allows the MCAD engineer to set mechanical space requirements before the layout process and provides speedy digital mock-up of modelling for mechanical design reviews. This helps solve 3D design issues earlier in the design process and eliminates the need for any re-design.

The lack of integration between PCB and 3D mechanical tools historically required layout engineers to complete initial board layout for later checking by MCAD engineers, which involved extensive layout rework. Increasingly organizations are recognising that collaboration across departments at every stage of the product development process can reap massive time, cost and quality savings. With this in mind, Zuken's objective with Board Interchanger was to enable MCAD engineers to get involved in the board layout process up-front and throughout the layout phase. Using 3D assembly models of boards generated with CATIA V5 (including the board outline, height-limited area and components etc), the MCAD engineer can transfer this information directly into the CR-5000 Board Designer database as a mechanical constraint.

By allowing layout engineers to use pre-defined 3D positioning that is established as 'stable' from stage-one layout engineers can work with MCAD approved positioning for placement, wiring and via keep-out areas, while working with within the restrictions of height-limited areas; eliminating potential placement errors and design rework. A cell based generation of height-limit areas depending upon mechanical constraints is fully automated.

CIMdata PLM Industry Summary

Board Interchanger also provides a really speedy mock-up facility for PCB modelling. By taking all the geometric data from CR-5000 Board Designer the new tool can translate this to 3D shapes within CATIA V5, maintaining the layer structure as defined by the layout engineer. Prior arrangement of component shapes within the parts library also means that elaborate PCB models can be created. These models can then be used for mechanical design reviews of the overall assembly view of a complete electronic product. To facilitate the process of 3D floor planning of electrical components, Board Interchanger will also allow 3D collision checking between housing, components or other PCBs.

The amount of translation tasks can be dramatically minimized through detailed configuration of Board Interchanger. MCAD engineers need only work with required data from Board Designer; sending back only changed parts - maintaining the integrity of existing design data to speed up the loop of communication between the mechanical and electronic design departments.

Design for mechanically complex PCBs and other 3D electronic devices, such as molded interconnects, is much more efficient using Board Interchanger. There is also potential to reduce board sizes to a minimum, as floor planning and routing is optimized through concurrent mechanical and electronic design.

Board Interchanger is the product of Zuken's established CAA Software Gold Partnership with Dassault Systèmes. Revision 1.1 now available supports CATIA V5 R16SP4 and R17SP4. Visit <http://www.zuken.com/board-interchanger> or contact your local Zuken representative for further information.

 [Click here to return to Contents](#)